



ANNUAL REPORT 2016-2017

**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

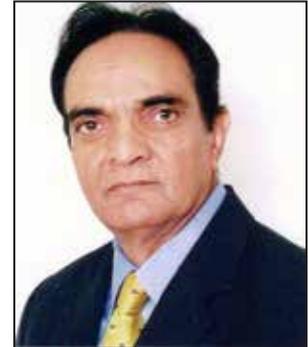
AIC	Accreditation Inspection Committee
AWKU	Abdul Wali Khan University
BoS	Board of Studies
BZU	Bahauddin Zakariya University
FST	Food Science and Technology
GCUF	Govt. College University, Faisalabad
HEC	Higher Education Commission
HoD	Head of Department
IAGS	Institute of Agricultural Sciences
IPFP	Interim Placement of Fresh PhDs
IT	Information Technology
IUB	The Islamia University of Bahawalpur
KPK	Khyber Pakhtunkhwa
LUAWMS	Lasbela University of Agriculture, Water and Marine Sciences
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
SAU	Sindh Agriculture University
TTS	Tenure Track System
UAF	University of Agriculture, Faisalabad
UAP	The University of Agriculture, Peshawar
UCA	University College of Agriculture
UIDNS	University Institute of Diet and Nutritional Sciences
UOH	University of Haripur
UOS	University of Sargodha
UOL	The University of Lahore

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Chairman's Message

It is my pleasure to share the Annual Report of the National Agriculture Education Accreditation Council (NAEAC) for FY 2016-17. Accreditation of academic programmes is mandatory for all higher education institutions of Pakistan. The basic purpose of accrediting programmes is to help improve the quality of higher education, enhance capacity of educational institutions to achieve and sustain academic excellence. The NAEAC is mandated to implement a fair and transparent external evaluation and accreditation of the agriculture education degree programmes in Pakistan.



I am pleased to report that during 2016-17, an overall 62 degree programmes were evaluated and rated in four provinces, besides the six zero visits. Of these, 44-degree programmes in 11 institutions were re-evaluated to assess the progress made on the recommendations of the external evaluation teams for the upgradation of infrastructure, learning resources and facilities. Main emphasis of the accreditation was on the already evaluated non-accredited and sub-standard degree programmes rated in Category Y and Z. In the second round, two on-site visits were carried out to University of Agriculture, Faisalabad and University of Agriculture, Peshawar, wherein 16 degree programmes were evaluated for accreditation.

Pre-accreditation or zero visits are basically conducted to make preliminary assessment of the planning and preparation done by the institution before launching a new degree programme. It is meant to review and guide the institutions of the Agriculture education degree programmes based on HEC's requirements for initiating a new degree programme. In this context, during 2016-17, the Council undertook six zero visits. These covered Food Science and Technology, Plant Breeding and Genetics, Food Science & Nutrition, Horticulture, Entomology and Forestry at UOS, Lyallpur Campus, Faisalabad, Hazara University, Mansehra, University of Lahore, UCA, Islamia University of Bahawalpur, Abdul Wali Khan University, Mardan and Shaheed Benazir Bhutto University, Sheringal, Dir Upper respectively.

The council has an ongoing programme of holding review meetings with the host institutions since 2014-15 with the objective of monitoring the implementation status of the accreditation recommendations made for the improvement of quality of the Agriculture education degree programmes encompassing teaching faculty, curriculum, infrastructures, teaching-learning resources and associated facilities. Till June 2017, nine such review

meetings have had been conducted with the Vice Chancellors, Deans, Directors and HoDs of the institutions concerned. These meetings underscored the importance and urgency of substantial improvements required in the infrastructure (class rooms, Labs, greenhouses etc.), learning resources (accesses to online journals and HEC digital library, etc), text books and IT facilities. Further to improve training and research facilities, experimental research farms needs to be upgraded with appropriate and adequate farm machinery and implements, trained manpower, and operational funds.

Organising and conducting orientation sessions and accreditation seminars in Agriculture education institutions is a regular activity of the Council. The main objective of these seminars is to sensitize the stakeholders about the significance of accreditation process, its benefits and programme evaluation criteria and standards used for the accreditation process. The council had hitherto conducted 41 such awareness seminars in 36 institutions till June 2017 including three in 2016-17.

The fourth Training Workshop of subject experts/ programme evaluators of NAEAC was planned for FY 2016-17 but could not be held due to non-availability of the External Resource Person/Expert. However, the same is now scheduled to be held in September 2017 for some 30 Programme Evaluators of NAEAC.

Lastly, I take this opportunity to acknowledge the support of the HEC Management and the excellent cooperation of the Vice Chancellors, the Deans, and HODs of agriculture institutions concerned including their QECs. I also commend the excellent work of NAEAC staff and the external evaluators/experts. My special thanks are to the NAEAC Secretary and Deputy Director (Admin. & Finance) for their 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.



Dr. M. E. Tusneem
Chairman, NAEAC

Executive Summary

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 Agriculture education degree programmes in Pakistan.

During 2016-17, main emphasis of the accreditation process was on the already evaluated non-accredited and sub-standard degree programmes rated in Category Y and Z. Thus, 44 such degree programmes in 11 institutions were re-evaluated to assess the progress made on recommendations for the upgradation of infrastructure, learning resources and facilities. In the second round, two on-site visits were carried out to University of Agriculture, Faisalabad and University of Agriculture, Peshawar, wherein 16 degree programmes were evaluated for accreditation. Overall 62 degree programmes were evaluated and rated in four provinces, besides six zero visits.

In the second round of external evaluation and accreditation, the council plans to carry out 34 degree programmes during the FY 2017-18 in four main Agriculture universities including University of Agriculture, Faisalabad; University of Agriculture, Peshawar; Sindh Agriculture University, Tandojam; and PMAS AAU, Rawalpindi. Follow-up visits are also envisaged to re-evaluate about 28 sub-standard and non-accredited degree programmes.

Organising and conducting orientation sessions and accreditation seminars in Agriculture education institutions is a regular activity of the Council. The main objective of these seminars is to sensitise the stakeholders about the significance of accreditation process, its benefits and programme evaluation criteria and standards used for the accreditation process. The council conducted 41 awareness seminars in 36 institutions till June 2017.

The Council initiated a programme of holding review meetings with the host institutions in 2014-15 with an aim to monitor the implementation status of the accreditation recommendations made for improvement of quality of the Agriculture education degree programmes encompassing teaching faculty, curriculum, infrastructures,

teaching-learning resources and associated facilities. Till June 2017, nine review meetings have been conducted with the vice chancellors, deans, directors and HoDs of the institutions concerned. Consensus-oriented recommendations of these review meetings were circulated among all concerned. The institutions were urged to make concerted efforts to improve quality of the degree programmes. Three more review meetings are planned in Gomal University, D.I. Khan; Ghazi University, D.G. Khan; and The University of Poonch, Rawalakot during FY 2017-18.

The fourth training workshop of subject experts/ programme evaluators of NAEAC was planned in FY 2016-17 but could not be organised due to non-availability of resource person from abroad. This year, with the support of Asia Pacific Quality Network (APQN), the Council has identified Prof. Dr. Jianxin Zhang, President APQN as the resource person; and she has consented to act as a resource person. Hopefully, the three-day training workshop for 30 participants/ programme evaluators of NAEAC will be conducted during 2017-18. The main objectives of the training workshop are to improve the evaluation skills of Programme Evaluators (PEs) in undertaking external evaluation and accreditation process and to understand participatory SWOT Analysis and NAEAC best practices for external peer review process.

I. Introduction

NAEAC is mandated to improve the standard and quality of Agriculture degree programmes by developing a sustainable and viable mechanism of quality assurance based on established policies, procedures and criteria set by Higher Education Commission (HEC), Pakistan. The main functions of the Council are to organise and undertake a comprehensive programme of accreditation of Agriculture degree programmes, develop and maintain a roster of subject experts/ PEs, publish rating and ranking of accredited degree programmes as well as maintain NAEAC website and strengthen institutional database.

II. Accreditation Activities

2. The main focus of accreditation during the upcoming FY 2017-18 shall be on the second round of accreditation activities for 34 degree programmes in five main agricultural universities of Pakistan. In addition to this, 28 sub-standard programmes will be re-evaluated.

3. It started in January-2017 from the Universities of Agriculture, Faisalabad and University of Agriculture, Peshawar. Eight degree programmes covering four disciplines from each university were re-visited for external evaluation. A total of 41 sub-standard degree programmes were re-evaluated to assess quality improvement in these programmes. Moreover, five new degree programmes were evaluated for accreditation at Sindh Agriculture University (SAU), Tandojam (4) and University of Sargodha (UOS), Lyallpur Campus (1). In all, 13 institutions were visited for 62 degree programmes during 2016-17. Given below is a summary of these activities:

A. Abdul Wali Khan University, Mardan

1. Summary of AIC Visit

Discipline	Agronomy
Degree Programme	B.Sc. (Hons)
AIC Expert/ Programme Evaluator	Prof. Dr. Shad Khan Khalil
Date of Visit	September 22, 2016
Aggregate Score	600 (60%)
Rating	Y ₁

Weaknesses: (i) Inexperienced and young teachers without senior faculty; (ii) Inadequate laboratories, offices and classrooms; (iii) Limited IT facilities, reference material and access to HEC digital library; (iv) Absence of well-developed and well equipped Agronomy laboratory and research farm; and (v) Lack of exposure of students to other universities and research institutions, etc.

AIC Recommendations: (i) Induction of qualified experienced professors on regular basis; (ii) Establishment of at least 1-2 fully-functional laboratories on priority basis; (iii) Provision of at least three classrooms, a seminar room, and a committee room; (iv) Upgradation of library, laboratories and the research farm; (v) Field visits be made part of practical until the university does have proper research farm; (vi) Essential farm machinery be made available at the farm to make it functional and research worthy.



Visit of AICs to AWKU, Mardan

Discipline	Horticulture
Degree Programme	B.Sc. (Hons)
AIC Expert/ Programme Evaluator	Prof. Dr. Noor-ul-Amin
Date of Visit	September 22, 2016
Aggregate Score	590 (59%)
Rating	Y ₂

Weaknesses: (i) Acute shortage of senior faculty at professor and associate professor levels; (ii) Non-availability of tunnel and greenhouse as well as lath house

facilities; (iii) Insufficient provision of prescribed text and reference books; (iv) Lack of plant nurseries and fruit orchards; and (v) Inadequate farm facilities.

AIC Recommendations: (i) Induction of senior PhD qualified regular faculty of professor and associate professor level be made; (ii) Well-equipped Horticulture laboratories, greenhouses and plant nurseries be established; (iii) Provision of prescribed text/ reference books in the library ensuring access of students to them; (iv) Faculty development programme be initiated for new faculty members; (v) Induction of qualified technical staff for laboratories and farm operators is needed; (vi) Strengthening of IT facilities and other learning resources such as access to HEC digital library.

3. Summary of AIC Visit

Discipline	Food Science and Technology
Degree Programme	B.Sc. (Hons)
AIC Expert/ Programme Evaluator	Prof. Dr. Alam Zeb
Date of Visit	September 22, 2016
Aggregate Score	510 (51%)
Rating	Y ₃

Weaknesses: (i) Shortage of experienced and senior PhD qualified faculty; (ii) Grossly insufficient laboratories, such as food processing, food analysis laboratories and food microbiology laboratory; (iii) Lack of apparatus, machinery and equipment required for food science practical; (iv) Insufficient number of textbooks; and (v) Programme of field trips/ study tours does not exist.

AIC Recommendations: (i) Appointment of at least one professor, one associate professor, and one assistant professor is required; (ii) Urgent purchase of instruments used in food processing and microbiology practical; (iii) Latest editions of recommended textbooks to be procured; (iv) Ensure access to IT facilities and HEC digital library for students and teachers; (v) The food science must be upgraded to the level of teaching department.

B. The University of Agriculture, Peshawar Amir Muhammad Khan (AMK) Campus, Mardan

1. Summary of AIC Visit

Discipline	Agronomy
Degree Programme	B.Sc. (Hons)
AIC Expert/ Programme Evaluator	Prof. Dr. Fayyaz-ul-Hassan Sahi
Date of Visit	October 6, 2016
Aggregate Score	510 (51%)
Rating	Y ₃

Weaknesses: (i) Shortage of senior level, experienced faculty; (ii) Lack of laboratory space and equipment; (iii) Limited number of textbooks and reference material; (iv) Lack of students' exposure to other universities and research institutions; (v) Non-availability of research farm for practical training.

AIC Recommendations: (i) Appointment of professor and associate professor be made as soon as possible; (ii) Laboratories with requisite equipment are required for practical; (iii) Provision of IT facilities to students be made; (iv) Field visits must be made part of practical as university does not have proper research farm; (v) Strengthening and upgradation of infrastructure such as library, laboratories and farm research area be focused

2. Summary of AIC Visit

Discipline	Horticulture
Degree Programme	B.Sc. (Hons)
AIC Expert/ Programme Evaluator	Prof. Dr. Ishfaq Ahmad Hafiz
Date of Visit	October 6, 2016
Aggregate Score	510 (51%)
Rating	Y ₃

Weaknesses: (i) Faculty strength and the strength of junior as well as contractual staff members is low than required; (ii) Only one small laboratory with a few equipment is available which is grossly insufficient; (iii) Very limited number of HEC recommended books and related literature; (iv) No Greenhouse and insufficient lath houses to carry out experiments; and (v) Limited access through public transport to UAP AMK campus, Mardan.

AIC Recommendations: (i) The existing faculty must be appointed immediately on permanent basis or on Tenure Track System (TTS); (ii) Procure more recommended textbooks and research journals and ensure access to digital library facility; (iii) Quality infrastructure including offices' building, classrooms, and laboratories are needed. Purchased land must be developed on priority basis; (iv) Faculty members to be motivated to submit research projects for grants to strengthen existing laboratory facilities;(v) Create more opportunities of scholarships and financial support to students; (vi) Improvement is required in various Horticulture areas particularly in vegetable cultivation field.

3. Summary of AIC Visit

Discipline	Soil Science
Degree Programme	B.Sc. (Hons)
AIC Expert/ Programme Evaluator	Prof. Dr. Muhammad Kaleem Abbasi
Date of Visit	October 6, 2016
Aggregate Score	585 (58.5%)
Rating	Y ₂



Visit of AICs to The UAP – AMK Campus, Mardan

Weaknesses: (i) Inadequate laboratory facilities, as equipment are almost negligible; (ii) Shortage of relevant course books; (iii) Insufficient space for classrooms, laboratories and greenhouses; (iv) No access to HEC digital library and international journals; and (v) No visible collaboration and coordination with industry.

AIC Recommendations: (i) Urgent need to upgrade the laboratories; (ii) More textbooks and reference material to be purchased; (iii) Establishment of greenhouse and research farm be accorded priority; (iv) Faculty must be encouraged to win research grants; (v) Participation of faculty and students in seminars and conferences to be ensured; (vi) Transport and medical facilities for faculty and students are needed.

C. Gomal University, D.I. Khan

1. Summary of AIC Visit

Discipline	Agronomy
Degree Programmes	B.Sc. (Hons) and M.Sc. (Hons)
AIC Expert/ Programme Evaluator	Prof. Dr. Fayyaz-ul-Hassan Sahi
Date of Visit	November 3-4, 2016
Aggregate Score	630 (63%)
Rating	Y ₁



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

Strength: PhD qualified and experienced faculty.

Weaknesses: (i) Lack of laboratory equipment and AV aids; (ii) Least access to new textbooks in library and internet; (iii) Absence of well-developed and equipped research farm; (iv) Low intake of students; (v) Lack of resources for operational expenses.

AIC Recommendations: (i) Old laboratory equipment need to be replaced; (ii) Addition of latest books must be made in the library; (iii) Operational machinery at farm for research and demonstration must be procured; (iv) Availability of IT facilities and multimedia in classrooms is required; (v) Strengthening and upgradation of infrastructure such as library, laboratories. Farm research area should be focused; (vi) Field visits should be made part of practical as university does not have proper research farm; (vii) High achiever amongst faculty should be recognised and rewarded.

2. Summary of AIC Visit

Discipline	Entomology
Degree Programmes	B.Sc. (Hons) and M.Sc. (Hons)
AIC Expert/ Programme Evaluator	Prof. Dr. Muhammad Naeem
Date of Visit	November 3-4, 2016
Aggregate Score	600 (60%)
Rating	Y ₁

Strength: Young but qualified teaching staff.

Weaknesses: (i) Shortage of senior faculty members (professor and associate professor); (ii) The admission response in B.Sc. (Hons) and M.Sc. (Hons) is discouraging; (iii) Working space is inadequate in laboratories. The equipment are adequate for undergraduate laboratories, but insufficient for M.Sc. (Hons); (iv) Lack of classrooms and faculty offices; and (v) No access to greenhouse and digital library facility.

AIC Recommendations: (i) Immediate need to strengthen the department with senior faculty and equipped laboratories; (ii) Latest editions of HEC recommended books should be purchased; (iii) A greenhouse and insectarium is required for research at postgraduate level; (iv) The faculty needs training in taxonomy and biotechnological areas; (v) Faculty must regularly participate in conferences, seminars and workshops at national and international level; (vi) The capacity of young faculty members may be enhanced through short-term and long-term training abroad.

3. Summary of AIC Visit

Discipline	Horticulture
Degree Programmes	B.Sc. (Hons) and M.Sc. (Hons)
AIC Expert/ Programme Evaluator	Prof. Dr. Ishfaq Ahmad Hafiz
Date of Visit	November 3-4, 2016
Aggregate Score	670 (67%)
Rating	X ₃

Strengths: (i) Highly qualified and experienced faculty for horticulture degree programmes; and (ii) Farm area, plastic tunnels, growth chambers, and lath house are functional.

Weaknesses: (i) Low number of student intake in both programmes of B.Sc. and M.Sc.; (ii) Non-availability of greenhouse and Biotechnology laboratory; (iii) Inadequate laboratory equipment particularly for post-harvest management/physiology, tissue culture, etc.; (iv) Shortage/ non-availability of trained support staff for maintaining laboratory equipment; and (v) Weak linkages with institutions and stakeholders.

AIC Recommendations: (i) Laboratories must be upgraded and strengthened for post-harvest handling of fruits, vegetables and floriculture crops; (ii) Green house and biotechnology laboratory to be constructed on top priority; (iii) Sufficient textbooks for undergraduate and graduate programmes to be procured; (iv) The linkage with other institutes to be strengthened so as to establish academia-industry linkages; (v) More area for experiments on Horticulture crops has to be made available; (vi) Faculty members be encouraged for writing project proposals to get research grants.

D. Shaheed Z.A. Bhutto Agriculture College, Dokri

1. Summary of AIC Visit

Discipline	Agronomy
Degree Programme	B.Sc. (Hons)
AIC Expert/ Programme Evaluator	Prof. Dr. Abdul Khaliq
Date of Visit	November 22-23, 2016
Aggregate Score	475 (47.5%)
Rating	Z ₁

Weaknesses: (i) Lack of senior faculty. Most of the faculty did not improve their qualification even in 20 years; (ii) Lack of laboratory and farm facility and equipment/ implements to meet practical requirements of students; (iii) No text/ reference books available to meet the NCRC developed curriculum; (iv) No internet facility and access to HEC digital library to meet the need of students and faculty; and (v) Limited and unskilled supporting staff especially for laboratories.

AIC Recommendations: (i) Appointment of a senior professor as principal and at least two associate professors in Agronomy are needed; (ii) IT training for the faculty is essential; (iii) At least two sets of prescribed/ recommended text and reference books must be made available in the library; (iv) A new PC-I is required to cater to the needs of contemporary programmes in Agriculture in general and those of Agronomy in particular; (v) Conduct courses on project development and scientific writing for the faculty.

2. Summary of AIC Visit

Discipline	Horticulture
Degree Programme	B.Sc. (Hons)
AIC Expert/ Programme Evaluator	Prof. Dr. Muhammad Akbar Anjum
Date of Visit	November 22-23, 2016
Aggregate Score	511 (51.1%)
Rating	Y ₃

Weaknesses: (i) Shortage of faculty; no senior (associate professor and professor) as well as highly qualified (PhD) faculty; (ii) Laboratory equipment and chemicals unavailable for students to conduct practical work of the courses; (iii) Insufficient farm area for vegetables, experimental orchards and nursery etc.; (iv) Number of books and latest editions of textbooks are still insufficient; (v) No provision of computing and internet facilities, and access to HEC digital library; and (vi) Students are dissatisfied with the working environment, hostel, sports and transport facilities.

AIC Recommendations: (i) More faculty should be appointed on permanent basis or on TTS; (ii) An experimental vegetable farm and experimental orchards of different fruits of the area must be established for experiments and students practical work; (iii) A nursery for ornamentals and fruit plants having greenhouse and other propagation structures be established for students practical and faculty research;

(iv) Study tours/ field visits be made as part of students practical work; (v) At least two sets of prescribed/ recommended text and reference books be available in the library; (vi) Faculty members be motivated to write and submit viable research projects of problem-oriented nature to develop and strengthen existing laboratory facilities; (vii) Create more opportunities of scholarships and financial support to the students.

3. Summary of AIC Visit

Discipline	PBG
Degree Programme	B.Sc. (Hons)
AIC Expert/ Programme Evaluator	Prof. Dr. Abdul Qayyum
Date of Visit	November 22-23, 2016
Aggregate Score	540 (54%)
Rating	Y ₃



Visit of AICs to Shaheed Z.A. Bhutto Agriculture College, Dokri

Weaknesses: (i) Shortage of PhD qualified senior faculty; (ii) Lack of latest edition of textbooks; (iii) Experimental farm improperly developed with very little farm machinery and farm implements; (iv) Greenhouse facilities are unavailable for controlled environment experiments; and (v) Research funds are insufficient for conducting practical training at undergraduate level.

AIC Recommendations: (i) Senior and PhD qualified faculty must be recruited; (ii) Upgradation and strengthening of the laboratory facilities for quality research; (iii) Latest glasshouse be constructed for properly conducting controlled

environmental experiments; (iv) Computer and internet facilities for students be provided; (v) More lecture rooms and teaching aids are needed.

4. Summary of AIC Visit

Discipline	Soil Science
Degree Programme	B.Sc. (Hons)
AIC Expert/ Programme Evaluator	Prof. Dr. Moazzam Jamil
Date of Visit	November 22-23, 2016
Aggregate Score	542 (54.2%)
Rating	Y ₃

Weaknesses: (i) Shortage of senior and qualified faculty to share the work load; (ii) Lack of necessary gadgets in offices, lecture rooms and laboratories; (iii) Installation of laboratory equipment is not yet made; (iv) Lack of a well-developed and equipped Agriculture farm; and (v) Shortage of viable projects to strengthen and develop the already existing facilities.

AIC Recommendations: (i) Recruitment of professor, associate professor, assistant professors and lecturers on regular and TTS basis is urgently required; (ii) Immediate provision of complete set of textbooks; (iii) Development of research farm for practical training of students; (iv) Soil Science laboratories to be well-equipped including needed glassware and chemicals; (v) Study tours for students to be arranged; (vi) Facilities regarding scholarship, sports, co-curricular, recreation, transportation, medical and learning resources must be strengthened; (vii) Policies at university level must be designed to encourage the enrollment of students at SZABAC instead of SAU.

E. Sindh Agriculture University, Tandojam

1. Summary of AIC Visit

Discipline	Biotechnology
Degree Programmes	B.Sc. (Hons) and M.Sc. (Hons)
AIC Expert/ Programme Evaluator	Prof. Dr. Abdul Qayyum
Date of Visit	November 24, 2016
Aggregate Score	585 (58.5%)
Rating	Y ₂

Weaknesses: (i) Shortage of teaching faculty including professors and other teaching staff; (ii) Lack of infrastructure i.e. laboratories, classrooms, common rooms, etc.; (iii) Most of the lab equipment is non-functional with non-technical laboratory staff; (iv) Number of recommended textbooks are grossly insufficient in the main library; (v) Non-availability of computing and internet facilities with no access to HEC digital library; and (vi) Non-availability of research journals and reference material.



Visit of AICs to SAU, Tandojam

AIC Recommendations: (i) Induction of more faculty members including senior professors; (ii) Provision of 2-3 well equipped laboratories, greenhouses and tissue culture laboratory etc.; (iii) Procurement of two sets of HEC recommended textbooks for different courses offered by the discipline; (iv) Ensure access to IT facilities, learning resources and HEC digital library; (v) Arrange study tours for students; (vi) Provision of operational budget for glassware and chemicals; (vii) Subscribe research journals and related reference material.

2. Summary of AIC Visit

Discipline	Crop Physiology
Degree Programmes	B.Sc. (Hons) and M.Sc. (Hons)
AIC Expert/ Programme Evaluator	Prof. Dr. Abdul Khaliq
Date of Visit	November 24, 2016
Aggregate Score	687 (68.7%)
Rating	X ₃

Strengths: (i) Teaching faculty consists of full-time teachers; and (ii) Adequate covered area for laboratories, lecture rooms as well as faculty offices.

Weaknesses: (i) Shortage of many essential laboratory equipment needed for agro-physiological studies and biochemical investigations in Plant Science; (ii) Quality of existing laboratory equipment is inadequate to meet the research needs of postgraduate students; (iii) Lack of state-of-the-art controlled-environment facility for conducting physiological studies in field crops; (iv) Absence of adequate facilities to help strengthen the communication and presentation skills of the students; and (v) Serious shortage of technically qualified laboratory staff.

AIC Recommendations: (i) Laboratories need to be made functional by providing operational funds as well as equipping these with more recent, needed apparatus; (ii) Support staff must be recruited on the basis of relevant qualification/ experience; (iii) Budget allocation for development, research, library and laboratories to be enhanced; (iv) Funds to be allocated for participation in international conferences/ seminars; (v) The latest editions of the books to be purchased.

F. University of Karachi

1. Summary of AIC Visit

Discipline	Agribusiness Management
Degree Programmes	B.Sc. (Hons) and M.Sc. (Hons)
AIC Expert/ Programme Evaluator	Dr. Ali Muhammad Khushk
Date of Visit	November 25, 2016
Aggregate Score	542 (54.2%)
Rating	Y ₃

Weaknesses: (i) Shortage of full-time faculty and PhD qualified senior faculty in Agribusiness Management and related disciplines; (ii) Lack of learning resources including latest textbooks, research journals, and magazines; (iii) Lack of teaching and research facilities and financial constraints particularly for research and development activities; (iv) Very few students opting for Agribusiness Management as a major subject; and (v) No faculty development programme and opportunities for higher education.

AIC Recommendations: (i) Immediate induction of full-time qualified (PhD) senior faculty members with specialisation in Agribusiness Management, Economics, Marketing, Supply Chain Management, Finance and Accounting; (ii) Procurement of latest textbooks for each subject offered in Agribusiness Management and subscribe the research journals and magazines; (iii) Develop modern teaching-learning facilities such as computer laboratory, library, students and faculty rooms for quality education; (iv) Faculty members and students must be encouraged to conduct research on various aspects of Agribusiness Management; (v) Ensure that faculty members participate in conferences, seminars and workshops at national and international level; (vi) Organise seminars and workshops on current issues of Agribusiness Management.



Visit of AICs to University of Karachi

2. Summary of AIC Visit

Discipline	Plant Protection
Degree Programmes	B.Sc. (Hons) and M.Sc. (Hons)
AIC Expert/ Programme Evaluator	Prof. Dr. Ghulam Jilani
Date of Visit	November 25, 2016
Aggregate Score	570 (57%)
Rating	Y ₂

Weaknesses: (i) No regular senior faculty having relevant qualifications; more than 50% is visiting faculty; (ii) No permanent facilities of greenhouse, glasshouse and experimental farm etc.; (iii) No farm implements, equipment and machinery for

demonstration of field operations; (iv) Insufficient number of books and reference material; and (v) There is no faculty development and training programme in place.

AIC Recommendations: (i) Senior, regular faculty with relevant qualifications must be appointed immediately; (ii) Greenhouse, glasshouse and experimental farm must be provided for postgraduate thesis research; (iii) More books of recent editions be purchased to strengthen library; (iv) More research projects be obtained to get more equipment and books; (v) Farm implements, equipment and machinery be provided; (vi) The capacity of young faculty members must be enhanced through short and long-term training.

G. University College of Agriculture, University of Sargodha

1. Summary of AIC Visit

Discipline	Agronomy
Degree Programmes	B.Sc. (Hons) and M.Sc. (Hons)
AIC Expert/ Programme Evaluator	Prof. Dr. Fayyaz-ul-Hassan Sahi
Date of Visit	December 13-14, 2016
Aggregate Score	610 (61%)
Rating	Y ₁

Strength: Qualified, young but junior level teaching faculty.

Weaknesses: (i) Absence of experienced and senior faculty to lead the discipline; (ii) Lack of teaching/ office space as per number of students/ teachers; (iii) Absence of well-developed and well-equipped research farm; (iv) Non-availability of HEC recommended textbooks in the library; and (v) Lack of students' exposure to other universities and research institutions of the country.

AIC Recommendations: (i) Appointments on senior faculty positions i.e. professor/ associate professor are needed; (ii) Strengthening and upgradation of infrastructure at laboratories, classrooms, faculty offices and farm research area should be focused; (iii) Purchase of HEC recommended textbooks be ensured at the earliest; (iv) Field visits should be made part of practical for students' exposure; (v) Provision of recreational as well as indoor/ outdoor sports facilities for students be made.

2. Summary of AIC Visit

Discipline	Animal Sciences
Degree Programmes	B.Sc. (Hons) and M.Sc. (Hons)
AIC Expert/ Programme Evaluator	Dr. Muhammad Farooq Khalid
Date of Visit	December 13-14, 2016
Aggregate Score	630 (63%)
Rating	Y ₁

Strength: Qualified and dedicated faculty with modest teaching experience.



Visit of AICs to UCA, University of Sargodha

Weaknesses: (i) Lack of senior faculty (professor and associate professor); (ii) Subject specific independent laboratories are not available; (iii) Lack of access to HEC digital library, IT facilities; and insufficient textbooks; (iv) Inadequate faculty offices and independent ministerial office; and (v) No separate budget allocations for the discipline.

AIC Recommendations: (i) Recruitment of senior faculty positions (at least one professor and one associate professor) with relevant qualification/ experience must be made; (ii) Subject specific independent laboratories must be established; (iii) The library to be strengthened by latest editions of books as well as international and local HEC recognised journals; (iv) Qualified laboratory staff in feed analysis and farm supervisors must be appointed on priority basis; (v) Establishment of independent ministerial office to run the office.

3. Summary of AIC Visit

Discipline	Forestry and Range Management
Degree Programme	B.Sc. (Hons)
AIC Expert/ Programme Evaluator	Prof. Dr. M. Tahir Siddiqui
Date of Visit	December 13-14, 2016
Aggregate Score	580 (58%)
Rating	Y ₂

Weaknesses: (i) Shortage of faculty; no senior faculty member i.e. associate professor and professor; (ii) Inadequate laboratory facilities for teaching and research; (iii) Shortage of textbooks and journals; (iv) No access to IT facilities and HEC digital library; (v) Experimental area is inadequate for nursery raising and research purposes; and (vi) Limited and unskilled supporting staff for laboratories.

AIC Recommendations: (i) Number of faculty positions to be increased at junior and senior faculty positions; (ii) The laboratories must be well-equipped with safety measures; (iii) Provision of IT facilities must be ensured and HEC digital library as well; (iv) Faculty development and training programme should be strengthened; (v) Experimental area should be increased and augmented with necessary tools, equipment as well as skilled workers; (vi) Faculty members must be motivated and encouraged to write and submit research projects.

4. Summary of AIC Visit

Discipline	PBG
Degree Programmes	B.Sc. (Hons) and M.Sc. (Hons)
AIC Expert/ Programme Evaluator	Dr. M. Shahid Masood
Date of Visit	December 13-14, 2016
Aggregate Score	680 (68%)
Rating	X ₃

Strengths: (i) Qualified and experienced faculty having diverse background of teaching and research; and (ii) Adequate laboratory and farm facilities for hands-on training and field experiments for undergraduate students.

Weaknesses: (i) Laboratory equipment is insufficient for postgraduate students to conduct research; (ii) Need to have at least one separate greenhouse for controlled

environmental conditions; (iii) Technical supporting staff is deficient both in laboratories and experimental field; and (iv) Paucity of operational budget for students and faculty research.

AIC Recommendations: (i) Strengthening of laboratory facilities with needed equipment and operational budget is required; (ii) Faculty members must be motivated to write project proposal for funding to strengthen existing facilities; (iii) Faculty members need to be facilitated to attend seminars and conferences at least within the country; (iv) Study tours/ field trips to public research institutes and private seed companies to create awareness among students; (v) Capacity building and training programmes for faculty members be initiated for updating knowledge of cutting-edge technologies; (vi) Induction of supporting staff with relevant qualification on priority basis to make laboratories fully functional.

5. Summary of AIC Visit

Discipline	Horticulture
Degree Programmes	B.Sc. (Hons) and M.Sc. (Hons)
AIC Expert/ Programme Evaluator	Prof. Dr. Ishfaq Ahmad Hafiz
Date of Visit	December 13-14, 2016
Aggregate Score	650 (65%)
Rating	X ₃

Strengths: (i) Faculty especially young teachers have good professional knowledge and confidence; and (ii) The department has established certified citrus nursery and generating considerable revenue.

Weaknesses: (i) Shortage of permanent and senior/ experienced faculty members as professor and associate professors; (ii) Inadequately equipped laboratories; (iii) Lack of tunnels for vegetable production, demonstration and nursery for ornamental plants; (iv) Unsatisfactory internet facilities, IT facilities and learning resources; and (v) Limited research facilities due to paucity of funds and facilities.

AIC Recommendations: (i) Horticulture programme needs at least two associate professors and one professor; (ii) Limited research facilities especially scientific equipment. Instruments and chemicals; (iii) Experienced and skilled support staff need to be inducted; (iv) Ensure access of faculty and students to internet facilities and other learning resources; (v) Installation of greenhouse and tunnels for vegetable

production to be undertaken; (vi) Need for more opportunities, scholarships and financial aids to student.



Visit of AICs to UCA, University of Sargodha

6. Summary of AIC Visit

Discipline	Plant Pathology
Degree Programmes	B.Sc. (Hons) and M.Sc. (Hons)
AIC Expert/ Programme Evaluator	Prof. Dr. Shahbaz Talib Sahi
Date of Visit	December 13-14, 2016
Aggregate Score	653 (65.3%)
Rating	X ₃

Strengths: (i) Well-qualified and experienced faculty; and (ii) Adequate physical infrastructure including classrooms and laboratories etc.

Weaknesses: (i) Number of books and latest editions of textbooks are still insufficient; (ii) Shortage of journals, magazines and reference material; (iii) Non-availability of skilled and trained supporting staff especially for laboratories; (iv) Orientation and training programme for newly inducted faculty is missing; and (v) No arrangements for study tours/ field trips.

AIC Recommendations: (i) Training programme for newly inducted faculty be arranged periodically; (ii) Procurement of journals and latest editions of recent books to be ensured; (iii) There must be dedicated internship programme in core areas of the discipline of Plant Pathology; (iv) The students and faculty members

must be facilitated and encouraged to attend seminars, conferences, symposia and workshops; (v) Ensure induction of qualified laboratory and field support staff; (vi) Opportunities for financial support to the students need to be increased.

7. Summary of AIC Visit

Discipline	Agri. Economics
Degree Programme	B.Sc. (Hons)
AIC Expert/ Programme Evaluator	Prof. Dr. Abdul Saboor
Date of Visit	December 13-14, 2016
Aggregate Score	635 (63.5%)
Rating	Y ₁

Strength: Satisfactory level of infrastructure having rich source of e-books.

Weaknesses: (i) Overall, shortage of faculty particularly PhD faculty in the cadre of associate professor and professor; (ii) Number of books and latest editions of textbooks is insufficient; (iii) Lack of IT facilities and reference material; (iv) Lack of academia-industry linkages; and (v) Unable to win research projects, conducting conferences and organising seminars etc.

AIC Recommendations: (i) Senior and PhD faculty must be appointed on permanent basis on priority; (ii) Special package to be ensured for the faculty to win at least one research project; (iii) Faculty development need to be taken as a necessary component of whole academic programme; (iv) At least a set of 10-textbooks of each course must be available in the library; (v) Business community and industrialists to be mobilised to get technical, logistic and scholarship support.

H. Govt. College Women University, Faisalabad

Summary of AIC Visit

Discipline	Food Science and Technology
Degree Programme	BS
AIC Expert/ Programme Evaluator	Dr. Saeed Akhtar Sheikh
Date of Visit	January 2, 2017
Aggregate Score	615 (61.5%)
Rating	Y ₁

Strength: Majority of the faculty holds PhD degree but junior level.

Weaknesses: (i) FST degree programme lacks senior and experienced faculty; (ii) Existing laboratory facilities do not meet the requirements of basic practical prescribed in the approved curriculum; (iii) A pilot food processing plant is not in place for the basic training of students; (iv) Sufficient chemicals and skilled staff are not available to help students carry out basic practical; and (v) The department does not have access to HEC digital library and other related facilities.



Visit of AIC to Govt. College Women University, Faisalabad

AIC Recommendations: (i) The department must recruit at least one professor and one associate professor of Food Science; (ii) Equip laboratories to meet each course/practical requirements in the light of the existing curriculum; (iii) Supply of glassware and chemicals needs to be ensured for the purpose of conducting practical; (iv) Provision of more space for classrooms, laboratories, pilot processing plant, support staff and faculty offices etc.; (v) The university must provide facility for digital library to the students of Food Science and Technology; (vi) A pilot food processing plant as a fundamental requirement of this programme must be in place.

I. University of Agriculture, Faisalabad

1. Summary of AIC Visit

Discipline	Agronomy
Degree Programmes	B.Sc. (Hons) and M.Sc. (Hons)
AIC Experts/ Programme Evaluators	Prof (Retd). Dr. Muhammad Bismillah Khan Prof. Dr. Fayyaz-ul-Hassan Sahi
Date of Visit	January 25-26, 2017
Aggregate Score	785 (78.5%)
Rating	X ₁

Strengths: (i) Highly qualified, experienced and competent faculty; (ii) The highest number of student intake in all programmes; and (iii) Well-established and functional laboratories of different research groups.

Weaknesses: (i) Inadequate space for the faculty offices and PhD students; (ii) Shortage of farm machinery and implements including the latest farm equipment and other farm



Visit of AICs to UAF

machinery; (iii) Lack of qualified and trained laboratory staff/ technicians; and (iv) High in-breeding ratio of faculty is nurturing mono-culturalism.

AIC Recommendations: (i) Addition of faculty offices and teaching laboratories; (ii) Laboratories supporting staff must be selected on the basis of relevant qualification/ experience; (iii) A well mechanised research farm and a field laboratory must be added; (iv) The credit hours of the general courses of Agronomy for B.Sc. (Hons) Agri. need to be increased. At least one general course in first four semesters; (v) Trend of shifting emphasis from teaching to only publications must be discouraged and emphasis should be laid on writing textbooks; (vi) The principle of merit/ natural justice to be strictly observed for admission of students, selection/ promotion of faculty/ staff/ granting of annual increments etc.

2. Summary of AIC Visit

Discipline	Horticultural Sciences
Degree Programmes	B.Sc. (Hons) and M.Sc. (Hons)
AIC Experts/ Programme Evaluators	Prof. Dr. Noor-ul-Amin Prof. Dr. Muhammad Jamil Ahmad
Date of Visit	January 25-26, 2017
Aggregate Score	888 (88.8%)
Rating	W ₂

Strengths: (i) PhD qualified and experienced faculty of 30 members; (ii) Adequate and well-equipped laboratories for teaching and research; (iii) Availability of

sufficient number of HEC recommended textbooks; and (iv) Well-established experimental orchard and vegetable farms.

Weaknesses: (i) Inadequate classrooms and faculty offices; (ii) Laboratories staff is untrained in the relevant field; and (iii) Paltry operational funds.



Visit of AICs to UAF

AIC Recommendations: (i) Curriculum revision must constitute a regular exercise on the basis of continuous feedback from all stakeholders; (ii) Some mechanism needs to be evolved to reduce the practice of inbreeding; (iii) Participation of faculty members in conferences, seminars and workshops be encouraged; (iv) Student-teacher ratio be reduced to facilitate the task of teachers and to create student-friendly environment in the classrooms; (v) University must consider increasing the classroom space and faculty offices; (vi) Training and education on laboratory safety and bio-safety of laboratory staff is absolutely essential.

3. Summary of AIC Visit

Discipline	PBG
Degree Programmes	B.Sc. (Hons) and M.Sc. (Hons)
AIC Experts/ Programme Evaluators	Prof. Dr. Syed Dilnawaz Ahmad Gardezi Dr. M. Shahid Masood
Date of Visit	January 25-26, 2017
Aggregate Score	850 (85%)
Rating	W ₃

Strengths: (i) Well-qualified and experienced faculty dedicated for students and researchers; (ii) Faculty members have good publications in HEC recognised

journals and impact factor journals of international repute; (iii) Well-equipped teaching and research laboratories for post-graduate level; and (iv) The number of students (graduate and postgraduate) is very high.



Visit of AICs to UAF

Weaknesses: (i) The laboratory facilities for students training and experiments at undergraduate level are limited; (ii) The space in laboratories and lecture rooms is insufficient as compared to the number of undergraduate and postgraduate students; (iii) The teachers are overburdened for lectures and supervision of students; and (iv) There is no individual sitting arrangements for research students (postgraduate level) within the department.

AIC Recommendations: (i) Laboratory facility be enhanced according to the strength of students along with increased furniture and fixtures; (ii) More emphasis be laid on academic and applied research by postgraduate students and faculty; (iii) Establishment of two more laboratories is the demand of the department; (iv) Laboratory research facilities must be further strengthened within the department keeping closer liaison with sister organisations like CABB, NIBGE and AARI; (v) Research farm area is scattered in the campus and needs to be consolidated for easy approach; (vi) The senior faculty be encouraged to write course books for graduate and postgraduate students.

4. Summary of AIC Visit

Discipline	Soil and Environmental Sciences
Degree Programmes	B.Sc. (Hons) and M.Sc. (Hons)
AIC Experts/ Programme Evaluators	Prof. Dr. Safdar Ali Mr. M. Tahir Saleem
Date of Visit	January 25-26, 2017
Aggregate Score	835 (83.5%)
Rating	W ₃

Strengths: (i) Highly qualified teaching faculty, as majority of them have PhD degrees; (ii) Availability of well-equipped laboratories, both for research and teaching of under-and postgraduate students; (iii) Advanced research and experimentation facilities like controlled growth chambers, greenhouses/ glasshouses; and (iv) Library with latest books, relevant journals besides being equipped with sophisticated audiovisual system.

Weaknesses: (i) Limited and relatively small space for lecture rooms; (ii) International professional teachers' training programme is not in place; and (iii) A large-scale inbreeding in the faculty.

AIC Recommendations: (i) Curriculum revision should constitute a regular exercise on the basis of continuous feedback from all the stakeholders; (ii) Some mechanism needs to be evolved to reduce the practice of inbreeding; (iii) Participation of faculty members in conferences, seminars and workshops be encouraged; (iv) Student-teacher ratio be reduced to facilitate the task of teachers and to create student-friendly environment in the classrooms; (v) University should consider increasing the classrooms space and faculty offices; (vi) Training and education on laboratory safety and bio-safety of laboratory staff is absolutely essential.

J. The University of Agriculture, Peshawar

1. Summary of AIC Visit

Discipline	Agronomy
Degree Programmes	B.Sc. (Hons) and M.Sc. (Hons)
AIC Experts/ Programme Evaluators	Prof. Dr. Fayyaz-ul-Hassan Sahi Prof. Dr. Abdul Khaliq
Date of Visit	February 15-16, 2017
Aggregate Score	755 (75.5%)
Rating	X ₁

Strengths: (i) Highly qualified faculty with sound experience in various fields of Agronomy; and (ii) Availability of highly-sophisticated instruments such as C: N analyser, solar-meters.

Weaknesses: (i) Inadequate laboratory equipment for both teaching and research; (ii) Inadequate office, lecturing and laboratory space with lack of relevant qualified laboratory staff; and (iii) Final semester undergraduate internship



Visit of AICs to the UAP

programme has not provided the desired exposure and training to the students.

AIC Recommendations: (i) Strengthening teaching/ research laboratories and farm facility for students and the faculty; (ii) Classrooms need restructuring along with provision of latest equipment for providing conducive learning environment; (iii) Academic/ graduate research be reviewed through weekly seminars in the department; (iv) Departmental library be established with the provision of latest reference and textbooks as well as peer reviewed journals.

2. Summary of AIC Visit

Discipline	Entomology
Degree Programmes	B.Sc. (Hons) and M.Sc. (Hons)
AIC Experts/ Programme Evaluators	Prof. Dr. Muhammad Naeem Dr. Asad Ali
Date of Visit	February 15-16, 2017
Aggregate Score	656 (65.6%)
Rating	X ₃

Strengths: (i) Foreign and competent qualified faculties with Ph.Ds. in different fields of Entomology; and (ii) Insect museum having 10,000 identified (mostly up to species level) insects and insect rearing facilities.

Weaknesses: (i) Lack of laboratories, equipment, recommended books, and national and international journals in different areas of Entomology; (ii) Lack of greenhouse facility; (iii) No independent classrooms and faculty offices; (iv) Inadequate support staff, technicians, and networking engineers etc.; and (v) Lack of adequate research funds and no ongoing research project.

AIC Recommendations: (i) The required faculty must be appointed urgently on permanent basis, especially to fill the gap created by retired faculty (two professors and one assistant professor); (ii) Laboratories need essential and advanced equipment for students research; (iii) Additional space is required for classrooms and committee/ seminar room; (iv) Faculty members need to be trained through digital teaching methods and additional multimedia and IT facilities; (v) A greenhouse and controlled temperature room is required for research at postgraduate level; (vi) Insect rearing facilities are required for various types of experiments; (vii) Central library be established to ensure availability of recommended books and access to journals.

3. Summary of AIC Visit

Discipline	PBG
Degree Programmes	B.Sc. (Hons) and M.Sc. (Hons)
AIC Experts/ Programme Evaluators	Prof. Dr. Syed Dilnawaz Ahmad Gardezi Dr. M. Shahid Masood
Date of Visit	February 15-16, 2017
Aggregate Score	801 (80.1%)
Rating	W ₃

Strengths: (i) Qualified and professionally adept faculty having will to work for students training and research; (ii) Strong research groups in various crops, who identified some promising varieties in brassica, maize and wheat; and (iii) Functional tutorial groups and counselling for students.

Weaknesses: (i) Laboratory facilities for students training and experiments at undergraduate level are limited; and (ii) Inadequate medical and transport facilities for female students.

AIC Recommendations: (i) Upgradation of existing laboratory facilities along with furniture and fixtures according to strength of students; (ii) Establishment of two more laboratories is required; (iii) Good storage facility is required for the breeding material at the farm; (iv) The PhD faculty need to be motivated and encouraged to write project proposals and win research grants; (v) The induction of young faculty is essentially required to fill the vacuum created by the retirement of senior teachers in the near future; (vi) Close collaboration with IBGE is required for hands-on experience in the molecular techniques.

4. Summary of AIC Visit

Discipline	Soil Science
Degree Programmes	B.Sc. (Hons) and M.Sc. (Hons)
AIC Experts/Programme Evaluators	Prof. (Retd). Dr. Anwar-ul-Hassan Dr. Abdul Rashid
Date of Visit	February 15-16, 2017
Aggregate Score	782 (78.2%)
Rating	X ₁

Strengths: (i) Well-trained and PhD qualified teaching and research faculty in most of the specialisation areas; (ii) Availability of good laboratory and field research facilities; and (iii) Good number of competitive research grants from local and international donor agencies.

Weaknesses: (i) Lack of advanced research facilities like greenhouses/ glasshouses and cold rooms; (ii) Lack of trained faculty and laboratory facilities in GIS, Soil Mineralogy, Soil Survey, Soil Physics and Soil Genesis and Soil Classification; (iii) Poor funding for the purchase of chemicals and equipment for research and practical; (iv) Lack of trained support staff such as laboratory technicians and laboratory assistants; and (v) Lack of interdisciplinary research.

AIC Recommendations:

(i) Faculty development programme for long-term and short-term training in GIS, IT, Soil Classification, Soil Survey, Soil Mineralogy and Soil Physics; (ii) Provision of two classrooms, one seminar room, one committee room and separate place for PhD



Visit of AICs to the UAP

students; (iii) Laboratories be strengthened by providing more advanced equipment; (iv) Provision of latest relevant books and literature, etc. in the main library; (v) Linkage with local industry be encouraged to benefit from its resources and get better job placements; (vi) Instead of exclusive use of multimedia and teaching methods to make more effective by using whiteboard and OHP.

K. Lasbela University of Agriculture, Water and Marine Sciences, Uthal

1. Summary of AIC Visit

Discipline	Agronomy
Degree Programme	B.Sc. (Hons)
AIC Expert/ Programme Evaluator	Prof. Dr. Shamsuddin Tunio
Date of Visit	February 22-23, 2017
Aggregate Score	670 (67%)
Rating	X ₃

Strength: Ph.D faculty is available in the department.

Weaknesses: (i) Professor and associate professor as well as experienced faculty are needed for guidance and development of leadership in the department; (ii) Non-availability of seed testing laboratory equipment; (ii) Classrooms require magi boards and multimedia facilities; and (iv) Student annual intake is very low.

AIC Recommendations: (i) B.Sc. (Hons) degree programme requires to induct senior and experienced faculty; (ii) Seed technology laboratory needs to be established to provide seed testing facility to the farmers and practical training of students; (iii) Purchase of more HEC recommended textbooks and reference material; (iv) Recruitment of staff including laboratory technician and supporting staff with relevant qualification and experience needs to be done for handling scientific work; (v) Strengthening and upgrading IT facilities and other learning resources (multimedia or magi boards etc.); (vi) Undergraduate students enrolment be enhanced by providing incentives, such as scholarships, half-term fee waiver, free hostel accommodation and transport etc.

2. Summary of AIC Visit

Discipline	Entomology
Degree Programme	B.Sc. (Hons)
AIC Expert/ Programme Evaluator	Prof. (Retd). Dr. Shafi M. Nizamani
Date of Visit	February 22-23, 2017
Aggregate Score	690 (69%)
Rating	X ₃

Strengths: (i) Available faculty is highly qualified for teaching and research activities; and (ii) Entomology discipline has adequate faculty office, classrooms and laboratory space to offer graduate degree programmes.

Weaknesses: (i) Shortage of senior and experienced faculty on permanent basis; (ii) Purchased but yet not installed equipment is insufficient to meet practical needs of students; (iii) Shortage of HEC recommended textbooks and subscription to journals etc.; (iv) Lack of qualified technical/ laboratory supports for Entomology laboratories; (v) Participation of faculty in national conferences and seminars is limited; and (vi) Student study tours and trips are not well-organised.

AIC Recommendations: (i) More PhD faculty members on permanent basis or on TTS are needed; (ii) Spacious laboratory space is required to introduce other sub-disciplines such as Insect Taxonomy, Insect Ecology, Biological Control, Insect Toxicology, Acarology, Host Plant Resistance, etc.; (iii) More equipment need to be purchased to ensure practical training of Entomology students; (iv) More HEC recommended textbooks are required for students; (v) Induction of technical staff comprising insect instrument technicians, museum curator etc.; (vi) Study tours/ field visits for students to be organised as part of students practical.

3. Summary of AIC Visit

Discipline	Plant Pathology
Degree Programme	B.Sc. (Hons)
AIC Expert/Programme Evaluator	Prof. (Retd). Dr. Shafi M. Nizamani
Date of Visit	February 22-23, 2017
Aggregate Score	590 (59%)
Rating	Y ₂

Strength: Plant Pathology discipline has adequate office, classroom and laboratory space to offer undergraduate degree programme.

Weaknesses: (i) Non-PhD junior level regular faculty members are only two besides one visiting teacher; (ii) Inadequate laboratory equipment lying dysfunctional; (iii) Very few recommended textbooks are available; (iv) Inadequate study tours/ field visits for students; (v) No culture of writing grant proposals for external funding among faculty members; (vi) Very low intake in the postgraduate programme; and (vii) Non-qualified technical and support staff.



Visit of AICs to LUAWMS, Uthal

AIC Recommendations: (i) Immediate induction of senior and experienced regular faculty members; (ii) Trained support staff in laboratories and offices must be appointed to facilitate teaching and research; (iii) The students and faculty members must be facilitated and encouraged to attend seminars, conferences, symposia; (iv) Need to create more opportunities of scholarships and financial support for students; (v) Study tours/ field visits required as part of students practical work at other academic and research institutions and progressive farms; (vi) Faculty development and training programme for new faculty members has to be initiated.

4. Summary of AIC Visit

Discipline	Horticulture
Degree Programme	B.Sc. (Hons)
AIC Expert/ Programme Evaluator	Prof. Dr. Muhammad Akbar Anjum
Date of Visit	February 22-23, 2017
Aggregate Score	535 (53.5%)
Rating	Y ₃

Weaknesses: (i) Shortage of faculty; number of regular faculty members is inadequate; (ii) Laboratory equipment and chemicals are unavailable to conduct students practical work of the courses like post-harvest Horticulture and In Vitro Propagation and it accompanies non-availability of equipment for faculty's research activities also; (iii) Insufficient farm area for vegetables, orchards and nursery;

(iv) Number of books and latest editions of recommended textbooks are grossly insufficient; (v) No provision of computing and internet facilities, in addition to no access to HEC digital library to meet the need of students and faculty; (vi) Field trips/ study tours for students are rarely organised; (vii) Students dissatisfied with the availability and use of existing facilities and learning resources.

AIC Recommendations: (i) More faculty be appointed on permanent basis or on TTS besides the appointment of highly qualified, well-experienced senior faculty; (ii) The curricula to be revised after every two to three years and the latest HEC curricula have to be adopted; (iii) At least two to three independent and well-equipped functional laboratories with needed glassware and chemicals is required; (iv) An experimental vegetable farm, a nursery and experimental orchards of different fruits of the area are required for students practical work and faculty's research purposes; (v) Study tours/ field visits to be organised as part of students practical work; (vi) More textbooks and research journals be purchased. At least, two sets of prescribed/ recommended text and reference books be available in the library, as recommended by the HEC NCRC; (vii) Provision of IT/ computing facilities and access to HEC digital library for teachers and students must be ensured.

5. Summary of AIC Visit

Discipline	PBG
Degree Programme	B.Sc. (Hons)
AIC Experts/ Programme Evaluators	Prof. Dr. Abdul Qayyum Dr. Rashid Anwar
Date of Visit	February 22-23, 2017
Aggregate Score	560 (56%)
Rating	Y ₂

Weaknesses: (i) Insufficient, junior and under-qualified faculty; (ii) Experimental farm is improperly developed and very little experimental land and farm machinery is available; (iii) Limited number of recommended textbooks; (iv) Non-availability of computers and internet facilities and access to HEC digital library; (v) Laboratories are being run by unskilled supporting staff; and (vi) No faculty development programme is in place.

AIC Recommendations: (i) Induction of sufficient, senior (Professor and Associate Professor) and PhD faculty members on regular and TTS basis; (ii) State-of-the-art laboratories equipped with latest and functional equipment; (iii) Purchase of one set of HEC recommended textbooks and reference material; (iv) More facilities in digital library with online linkages to be provided for easy approach to online journals, books and research papers etc.; (v) Faculty development training programme for new faculty members to be initiated; (vi) Field visits of students to be made as part of practical.

6. Summary of AIC Visit

Discipline	Soil Science
Degree Programme	B.Sc. (Hons)
AIC Expert/ Programme Evaluator	Prof. Dr. Inayatullah Rajpar
Date of Visit	February 22-23, 2017
Aggregate Score	650 (65%)
Rating	X ₃

Strength: The newly constructed faculty building is spacious and adequate for running the graduate degree programme in the field of Soil Science.

Weaknesses: (i) There is a shortage of senior (associate professor and professor) faculty; (ii) Laboratory equipment are not properly installed and the required chemicals are lacking to conduct practical classes and demonstrations; (iii) Dearth of HEC



Visit of AICs to LUAWMS, Uthal

recommended textbooks of the adopted curriculum; (iv) Lack of students interest in opting for soil science as their major field of specialisation; (v) Field trips/ visits for students are not frequently organised; and (vi) Shortage of technical and supporting staff (skilled and unskilled).

AIC Recommendations: (i) Regular and senior faculty need to be inducted; (ii) Training programmes need to be initiated to improve the qualification of new

faculty members; (iii) Laboratory equipment to be properly installed and chemicals be purchased for laboratories; (iv) Study tours/ field visits for students need to be organised; (v) Faculty members be encouraged to plan, write and submit problem-oriented research projects; (vi) Counselling of students to be ensured to encourage them to opt for Soil Science as a major subject.

L. University of Haripur

Summary of AIC Visit

Discipline	Forestry and Wildlife Management
Degree Programmes	B.Sc. (Hons) and M.Sc. (Hons)
AIC Experts/ Programme Evaluators	Prof. Dr. Sarwat Naz Mirza Prof. Dr. Iftikhar Hussain
Date of Visit	March 16, 2017
Aggregate Score	700 (70%)
Rating	X ₂

Strengths: (i) The newly constructed faculty building is spacious and adequate for the graduate degree programmes; and (ii) On-campus forestry and wildlife museum facility, plant nursery and peasantry.

Weaknesses: (i) Shortage of permanent faculty of middle as well as senior level; (ii) Inadequate laboratory equipment and field instruments; (iii) Limited number of textbooks and reference material; (iv) Student intake at postgraduate level is very low; and (v) Field assignments do not correspond to the scheme of studies.

AIC Recommendations: (i) Regularising the services of contractual faculty and making recruitments/ appointments against senior faculty positions; (ii) Must not offer admission in M.Phil. degree unless a minimum number of six students are available; (iii) Deficiency of laboratory and field equipment need to be overcome by making new purchases and conducting regular practical classes (course specific); (iv) Course related textbooks to be made available to the faculty and students; (v) Summer attachment/ placement to be formalised by assigning appropriate number of students to individual faculty members; (vi) Faculty members be advised to develop lecture-wise breakup of the course contents handing them over to the students at the start of each semester.

M. University of Sargodha, Lyallpur Campus, Faisalabad**Summary of AIC Visit**

Discipline	Food Science and Technology
Degree Programme	B.Sc. (Hons)
AIC Experts/ Programme Evaluators	Dr. Saeed Akhtar Sheikh Dr. Muhammad Umair Arshad
Date of Visit	March 28, 2017
Aggregate Score	575 (57.5%)
Rating	Y ₂

Weaknesses: (i) More FST faculty is needed on urgent basis; (ii) Laboratory facilities and instrumentation for processing hall are meagre to meet the students requirements; (iii) Limited number of textbooks; (iv) Industrial visits and linkages with industry are hardly evident; (v) Campus interaction with parent institution (UOS) does not exist; and (vi) Students have hardly any opportunity for practical work due to shortage of apparatus and instruments.



Visit of AICs to UOS, Lyallpur Campus

AIC Recommendations: (i) Urgent need for expanding space for the classrooms, laboratories, support staff and students; (ii) The Programme calls for availability of a range of relevant equipment/ instruments both for laboratories and the processing hall; (iii) The library needs to be strengthened in terms of provision of new books both text and reference books; (iv) Appointment of relevant faculty at all levels through recommended and standard procedure of recruitment of UOS; (v) IT facilities are yet lacking in the department, which are to be ensured for degree programme; (vi) Departmental BoS should be in place to look into the academic matters at campus level; (vii) Special efforts are to be made to ensure industry-academia linkage, to sign MoUs with relevant agencies/ institutions and to introduce faculty development programmes.

III. Zero Visits

4. Pre-accreditation/ zero visits are basically conducted like pilot testing to check assessment and level of planning designed by the institution before launching a full degree programme meant to assess the level of planning and preparation of the Agriculture education institutions regarding initiation of new degree programmes. The basic objective is to sensitise all the stakeholders regarding the processes and pre-requisites for the degree programme to be accredited in the near future as well as to guide and mentor. In any case, pre-accreditation/ zero visit does not qualify for any interim or conditional accreditation to that specific degree programme; it is only an assessment made well before intimating the full degree programme.

5. During 2016-17, NAEAC performed six zero visits. These include Food Science and Technology, Plant Breeding and Genetics, Food Science & Nutrition, Horticulture, Entomology and Forestry at UOS, Lyallpur Campus, Faisalabad; Hazara University, Mansehra; University of Lahore; UCA, Islamia University of Bahawalpur; Abdul Wali Khan University, Mardan and Shaheed Benazir Bhutto University, Sheringal, Dir Upper respectively. A summary of external assessments and recommendations is reproduced below:

1. University of Sargodha, Lyallpur Campus, Faisalabad

Summary of Zero Visit

Discipline	Food Science and Technology
Degree Programme	B.Sc. (Hons)
AIC Experts/ Programme Evaluators	Dr. Saeed Akhtar Sheikh Mr. Naseer Alam Khan
Date of Visit	October 4, 2016

AIC Assessment: (i) Lack of infrastructure facilities; (ii) Non-availability of qualified laboratory staff; (iii) Shortage of HEC recommended textbooks; (iv) Unsatisfactory IT facilities with no access to



Visit of AIC to UOS, Lyallpur Campus

HEC digital library; (v) Non-existence of BoS; and (v) Low meaningful industry-academia linkages.

AIC Recommendations: (i) Campus authorities must focus to expand infrastructural facilities for FST; (ii) Separate staff needs to be recruited to help students perform practical; (iii) Adequate provision of well-equipped laboratories is needed with respect to the practical requirements of each course; (iv) Library of the department needs to be strengthened in terms of provision of new books both text and reference books; (v) Efforts must be made to launch providing services of HEC digital library as soon as possible; (vi) Faculty be appointed as per requirement of NAEAC for accreditation; (vii) Sufficient development and recurring budget to be allocated for the department; (viii) Departmental BoS must be in place to look into the academic matters at campus level; and (ix) Special efforts are to be directed to ensure industry-academia linkage to sign MoUs with relevant agencies/ institutions.

2. Hazara University, Mansehra

Summary of Zero Visit

Discipline	PBG
Degree Programme	B.Sc. (Hons)
AIC Experts/ Programme Evaluators	Dr. M. Shahid Masood Mr. Naseer Alam Khan
Date of Visit	January 3-4, 2017

AIC Assessment: (i) The existing infrastructure and learning resources are inadequate for initiation of all the three degree programmes; (ii) The faculty is available only for PBG (B.Sc.) degree programme courses but not for introductory courses in the first four semesters such as Animal Science and Forestry etc.; (iii) No access to HEC digital library, while IT facilities are limited and unsatisfactory; (iv) Limited office space for the faculty and the classrooms environment is not conducive for teaching;



Visit of AIC to Hazara University, Mansehra

(v) No support staff for laboratory and field work; (vi) Field experimental area is available for hands-on training of students; and (vii) Lack of discipline, cleanliness and biosafety measures in the laboratories.

AIC Recommendations: (i) The Department of Agriculture is not yet prepared to launch three degree programmes; (ii) They have to focus only on PBG degree programme and wait for the others until proper infrastructure/ learning resources and needed facilities are available; (iii) Upgradation of the existing laboratory in addition to establishment of another well-equipped and fully functional laboratory for PBG is urgently required; (iv) Establishment of at least one greenhouse to avoid environmental effects; (v) Induction of faculty and technical support staff for field and laboratories; (vi) Access to digital library, upgradation of IT facilities and strengthen existing library with provision of HEC recommended textbooks; and (vii) Availability of good quality classrooms with multimedia facility and office space for the faculty.

3. University of Lahore (UoL), Lahore

Summary of Zero Visit

Discipline	Food Science and Technology
Degree Programme	M.Sc. (Hons)
AIC Experts/ Programme Evaluators	Dr. Saeed Akhtar Sheikh Mr. Naseer Alam Khan
Date of Visit	February 07, 2017

AIC Assessment: (i) Currently, 20 students have been enrolled in M.Phil. degree programme of FST; (ii) The management of UoL has appointed considerable number of faculty members i.e. 19 (04 Assistant professors and 15 lecturers), but without senior faculty (associate professor and professor) to academically and administratively handle programmes; (iii) While on zero visit to UIDNS, AIC witnessed excellent infrastructure with ample space for classrooms, common rooms and faculty offices etc.; (iv) To meet the requirements of increasing the number of students, the available equipment seem to be sufficient enough to perform practical part of each course, but the management should focus on purchasing more equipment apart from expanding laboratories capacity to accommodate these students; (v) The available laboratories and equipment do not exclusively cover specific areas like dairy, microbiology and biotechnology, post-harvest technology,

food analysis, cereal, and nutrition etc.; and (vi) Adequate number of books are available in the main library but these books do not appropriately cover the individual course requirements with respect to programme curriculum.

AIC Recommendations: (i) Senior faculty (associate professor and professor) to be appointed to handle such a big academic programme; (ii) Budget for UIDNS may be exclusively allocated so as to purchase equipment and books, in addition to arranging study tours, seminars and conferences, etc. ; (iii) Faculty development programmes offered only by UIDNS or Faculty of Allied Health Sciences need to be in place to ensure the desired skills in research and teaching; (iv) Considering the significance of writing research proposals and organising joint ventures and faculty exchange programmes, the institutive should focus on collaborating with counterparts in other public and private sector universities and research organisations; and (v) UIDNS must have an independent Board of Studies and some advisory board comprising senior relevant faculty to update the programme from time to time bringing it at par with relevant international organisations.

4. University College of Agriculture (UCA), Islamia University of Bahawalpur

Summary of Zero Visit

Discipline	Horticulture
Degree Programme	B.Sc. (Hons)
AIC Experts/ Programme Evaluators	Prof. Dr. Muhammad Akbar Anjum Mr. Naseer Alam Khan
Date of Visit	February 28, 2017

AIC Assessment: (i) Lack of senior faculty, especially professor and associate professor; (ii) Shortage of regular faculty as only one assistant professor and one lecturer are regular, while one assistant professor and one lecturer are on contract and one assistant professor is on IPFP; (iii) No supporting staff for laboratory (laboratory assistant or laboratory attendant) and office (clerk, office attendant etc.); (iv) The existing laboratory facilities and learning resources are inadequate; and (v) There is five acres of land for demonstration and students' practical work but without provision of any field staff (field assistant, gardener, farm labor etc.); and (vi) No departmental library amidst limited IT facilities.

AIC Recommendations: (i) Induction of regular and experienced senior faculty (at least one professor or associate professor) and supporting staff for office, laboratory and fieldwork; (ii) Upgradation of existing laboratory by purchasing new equipment, apparatus and instruments; (iii) Special budget be allocated for purchase of equipment, instruments, chemicals, glassware and other supplies; (iv) Establishment of departmental library and strengthening and upgradation of IT facilities and learning resources; (v) Provision of independent recurring budget for the department to meet day-to-day requirements; and (vi) Constitution of separate BoS for the department.

5. Abdul Wali Khan University, Mardan

Summary of Zero Visit

Discipline	Entomology
Degree Programme	B.Sc. (Hons)
AIC Experts/ Programme Evaluators	Prof. Dr. Muhammad Naeem Mr. Naseer Alam Khan
Date of Visit	March 13, 2017

AIC Assessment: (i) Out of five faculty members with PhD qualification, only one associate professor is regular, while others are either on TTS or IPFP. One faculty member is qualified in Plant Pathology but he is teaching Entomology courses;

(ii) There are only three faculty offices. The faculty members have published about 33 research papers in HEC recommended journals; (iii) The admission response in B.Sc. (Hons.) major Entomology is not encouraging, only seven students



Visit of AIC to AWKU, Mardan

from session 2013-17; (iv) There is only one research laboratory far away from the Entomology discipline. There is no proper sitting place for students to perform experiments in the laboratory. The basic equipment is inadequate to perform

efficient laboratory and fieldwork; and (v) Limited number of acceptable, recommended textbooks are available in the main library.

AIC Recommendations: (i) Induction of faculty on regular basis is essential; (ii) There is an immediate need for setting up a research laboratory with basic equipment that must be approachable to the students. Upgradation of the existing laboratory is also required; (iii) Need to increase the intake of students; (iv) Additional space is required for faculty offices; and (v) Easy access to digital library and strengthening of existing library with provision of new editions of HEC recommended textbooks.

6. Shaheed Benazir Bhutto University, Sheringal, Dir Upper

Summary of Zero Visit

Discipline	Forestry
Degree Programme	BS (Hons)
AIC Experts/ Programme Evaluators	Dr. M. E. Tusneem Prof. Dr. Sarwat Naz Mirza
Date of Visit	May 19, 2017

AIC Assessment: (i) The existing infrastructure and learning resources are adequate to continue BS (Hons) degree programme, while initiation of M.Phil. degree programme is conditional to appointment of senior faculty members of the level of associate professor or professor; (ii) Though the department is fulfilling major criteria for offering the BS (Hons) degree programme in terms of infrastructure and faculty resources, yet the department head and the faculty were clearly briefed about HEC criteria regarding award of full accreditation to the existing BS (Hons) degree programme. They were asked to prepare a self-assessment report containing detailed curriculum with course contents and credit hours, faculty and infrastructure resources, field and laboratory equipment, books, journals, internet resources, course files, research projects and publications by the faculty, field and laboratory activities and collaboration with other departments/institutions; (iii) No senior level faculty position (associate professor/ professor) exists or is filled; (iv) No access to HEC digital library, while IT facilities are limited and unsatisfactory; (v) Supporting staff for laboratory and fieldwork is limited; and (vi) Adequate field experimental area is available for hands-on training of students.

AIC Recommendations: (i) Keeping in view the existing faculty and infrastructure capacity, the Department of Forestry can apply for accreditation of its degree programme once it prepares and submits self-assessment report after fulfilling major requirements of HEC criteria communicated during pre-accreditation/ zero visit to the department; (ii) The department has to focus on BS degree programme in Forestry and wait for M.Phil. or higher degree programme till proper infrastructure/ learning resources and needed facilities are available and appointment of senior level faculty in the department; and (iii) The department should make efforts to ensure access to digital library along with upgradation of IT facilities and strengthening of existing library besides provision of HEC recommended textbooks and journals.

IV. Review Meetings with Institutions

6. The council has initiated review meetings with host institutions since 2014-15. So far, nine 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.

7. The review meetings were held at the following three higher education institutions during 2016-17.

1. Institute of Agricultural Sciences (IAGS), University of the Punjab, Lahore

8. External Evaluation and accreditation of the degree programmes of four disciplines of Agriculture were carried out during 2011-14 and a follow-up visit during 2016. Degree programmes of these disciplines including Plant Pathology, Food Science and Horticulture were rated in Category X3 of accreditation being on borderline.

9. In order to assess the implementation status of the recommendations, a review meeting was held on February 8, 2017 at IAGS. All the HoDs attended the meeting, chaired by Chairman NAEAC. Following is the summary of major recommendations.

- Strength and quality of full-time/ regular teaching faculty is the corner stone of a degree awarding programme. Minimum requirements for accreditation of the degree programme with NAEAC is full-time/ regular faculty of five with three PhDs and at least one faculty member of associate professor level. The situation regarding strength and quality of IAGS faculty is somewhat pathetic. About 70 per cent faculty is on either contract, TTS or IPFP, whereas 25 per cent is the visiting faculty. There is an urgent need for inducting at least one faculty of associate professor level in the Department of Food Science & Technology, Horticulture and Entomology with minimum number of contractual, IPFP and visiting faculty. However, in spite of the above-narrated facts, we appreciate the achievements of the institute in the short span of time such as:
 - (i) Pakistan's first international US patent in the field of industrial food enzymes;
 - (ii) Bringing in more than 100 million Pakistani rupees in the form of research grants from national and international agencies; iii). Wining Best Research Paper Award from HEC.
- IAGS has reasonable infrastructure and learning resources but insufficient space in laboratories and small area of experimental farms for students practical work. Establishment and functioning of at least two spacious and well-equipped laboratories for each discipline along with 25 acres of irrigated land in the university campus is required. Hence, an additional academic block is needed to accommodate students of Entomology and Horticulture degree programmes. The institute may immediately be provided with funds to renovate the incomplete building in its vicinity for establishment of functional laboratories and to ensure the availability of adequate classrooms and faculty offices.
- Sufficient number of recommended textbooks, reference books and research/ reference material and international journals to be ensured for each discipline.
- Presently, the faculty and staff offices are grossly inadequate. The faculty to be placed/ accommodated in spacious and well-equipped offices in the new block (grey building) of the IAGS.
- Academia-industry linkages need to be further strengthened for meaningful and result-oriented collaboration in the interest of institute.
- Agriculture research farm is essential for faculty and graduate research. Upgradation of the research farm with requisite machinery, implements and manpower and further expansion of 25 more acres need to be ensured.

- All PhD faculty to be encouraged and motivated to win research grants through mega projects for strengthening and upgradation of teaching-learning facilities at the institute.
- The faculty has to participate in the national and international conferences and seminars to share their experience and knowledge with their counterparts.
- There is a need to organise study tours/ trips for the undergraduate and postgraduate students on regular basis in order to enhance their exposure and vision about Agriculture.
- More local stakeholders to be associated with BoS and Faculty Board Institute for useful and problem-oriented feedback.
- Student alumni is lacking, so a well-developed alumni office is required.
- It is a matter of grave concern that 6-7 faculty members having terminal degrees in Botany/ Biology, which are irrelevant to Agricultural Sciences, are still on strength of Plant Pathology discipline at IAGS, PU. Rationalisation of staff must be done. They all are working on TTS and drawing heavy salaries and perks. It is advised to utilise their expertise in their respective/ parent department i.e. Botany/ Biology at University of the Punjab as per their terminal and basic degrees.
- It is a huge loss of public money. It is also advised to adopt austerity measures against them.
- It is suggested that these vacant posts, later on, be distributed among already established different disciplines of Agriculture i.e. Food Science and Technology, Horticulture and Entomology to cater to their minimum need of the faculty as per HEC criteria. This will help safeguard the quality of teaching and research of Agriculture.

2. University College of Agriculture, The Islamia University of Bahawalpur

10. External evaluation of the degree programmes of six agricultural disciplines was carried out at University College of Agriculture (UCA), The Islamia University of Bahawalpur (IUB) during 2012-14 and a follow-up visit during 2016. Degree programmes of three out of six disciplines including Agronomy, Food Science and Entomology were rated as sub-standard, not qualifying for accreditation. HoDs of the respective degree programmes were urged to win research grants for strengthening and upgradation of teaching-learning infrastructure and facilities.

11. A review meeting was held on February 27, 2017 at UCA, IUB. All the HoDs attended the meeting, chaired by dean of the faculty. Following is the summary of major recommendations.

- Strength and quality of full-time/ regular teaching faculty is the corner stone of a degree awarding programme. The situation regarding strength and quality of faculty of UCA of IUB is somewhat pathetic. More than 70 per cent faculty is young/ junior



Review Meeting at UCA, IUB

- level as well as on either contract or IPFP. There is urgent need to induct at least one faculty of associate professor level in all the eight departments with minimum number of contractual and IPFP appointments. Minimum requirements for accreditation of a degree programme with the HEC's NAEAC is full-time/ regular faculty of five with three PhDs and at least one faculty member of associate professor level.
- Negligible improvements were noticed in the infrastructure and learning resources, as well as establishment and functioning of at least two laboratories for each discipline. Hence, the college may immediately be shifted to its new premises for establishing functional laboratories and to ensure the availability of adequate classrooms and faculty offices.
- There is dearth of 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, nor any local Agriculture journal.
- 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.
- Presently, the faculty and staff offices are grossly insufficient. The faculty needs to be placed/ accommodated in spacious and well-equipped offices in the new building of the college.

- The UCA has eight teaching departments. Almost all departments require research farm for faculty and graduate research. Upgradation of the research farm with requisite machinery, implements and manpower should be ensured.
- Academia-industry linkages need to be further strengthened for meaningful and result-oriented collaboration.
- All PhD faculty must be encouraged and motivated to win research grants through mega projects for strengthening and upgradation of teaching-learning facilities of the college.
- The faculty has to participate in the national and international conferences and seminars to share their experience and knowledge with their counterparts.
- There is a need to organise study tours/ trips for students on regular basis to enhance their exposure and vision about Agriculture.
- All the teaching departments need to provide financial autonomy. Adequate operational funds should be allocated and placed at the disposal of principal/ HoDs.
- More local stakeholders to be associated with the BoS and Faculty Board of the university college of Agriculture for useful and problem-oriented feedback.
- Like other universities, the IUB needs to adopt uniform admission policy for B.Sc. (Hons), M.Sc. (Hons) and PhD degree programmes.
- Student alumni is lacking, so a well-developed and functional alumni office is essential.

3. Department of Agricultural Sciences, University of Haripur (UoH)

12. The B.Sc. (Hons) degree programmes of six disciplines of Agriculture were rated as sub-standard during AICs visit in 2014 and follow-up visit in 2016. The Department of Agricultural Sciences, University of Haripur (UoH) was carried out back in March 2014 with a follow-up visit in November 2015. The chairman and HoDs of the respective degree programmes were asked to implement the recommendations of the Accreditation Inspection Committees (AICs) to further improve quality of education in the degree programmes.

13. With a view to monitor implementation status of the recommendations, a review meeting was held on March 21, 2017 at the Department of Agricultural Sciences, University of Haripur (UoH). All the HoDs attended the meeting, chaired by the Vice Chancellor. Following are the major actionable/ recommendations.

- Of the forty one (41) faculty members, more than 50% are Assistant Professors and only two are professors (5%). Almost half of the faculty is on contract basis and IPFP. Student-teacher ratio is 8:1. The minimum requirements for accreditation of a degree programme is full time faculty members including three PhDs and at least one faculty member of the level of Associate Professor.
- The university has made tremendous and impressive achievements in terms of infrastructure of academic blocks with furnished classrooms and faculty offices. However, the laboratories are not well-equipped and the existing space of almost all the laboratories is inadequate with no deployment of laboratory technician and laboratory attendant. The available equipment need to be properly installed and made functional, ensuring access of faculty and graduate students. More equipment is also required to ensure conducting all curriculum recommended practical work of all the disciplines.
- Textbooks, journals and reference material are important learning resource. As discussed with Deputy Director (QEC), the UoH must procure at least 50 per cent of the HEC textbooks in hard form.
- Out of seven disciplines in the Department of Agriculture, six require farm area for research to be conducted by faculty and graduate students. Presently, available farm area is not only gross insufficient but also improperly utilised .
- At least 10-15 acres of land is urgently required for developing Agriculture research farm adequately equipped with farm implements and machinery and supervised by a full-time farm manager assisted by adequate field staff.
- All PhD faculty to be encouraged and motivated to win research grants through mega projects for strengthening and upgradation of laboratories and all other allied teaching-learning facilities.
- At least one greenhouse and lath house particularly for Horticulture crops is urgently needed to control environmental effects and a disease free certified nursery of fruit and ornamental plants.
- The department has IT facilities and access to HEC digital library.
- 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 internship programme.

- Academia-industry linkages to be further strengthened for mutually beneficial and outcome-oriented collaboration in the interest of the university.
- Considering the significance of writing research proposals and executing joint ventures and faculty exchange programmes, the department has to focus on collaborating with their counterparts in other public and private sector universities and R&D organisations.
- One of the faculty members, qualified in Agriculture Engineering, is working/teaching Soil Science courses. The university authorities have to check such tendency.
- More local stakeholders to be associated with independent BoS for each discipline to be notified along with an independent teaching department and Faculty Board for useful and problem-oriented feedback.
- Students Alumni is lacking. A well-developed and functional Alumni office is required.
- Enrolment in some degree programmes is very low. Minimum standard requirement is at least 5-6 students in each class which may be adhered to.

V. Accreditation Awareness Seminars

14. The main objectives of awareness seminars are:

- (i) To feel the pulse, expectation and aspiration of stakeholders about good as well as quality education.
- (ii) Make all concerned aware about quality education and accreditation process of the council.

15. Accreditation awareness seminars are being conducted regularly by the council. During FY 2016-17, three quality assurance and accreditation awareness seminars were conducted with the collaboration of host institutions. These seminars create awareness among the stakeholders for better understanding of the process and significance of accreditation process. The seminar highlights including policies, procedures, standards, and criteria adopted by the council for external evaluation and accreditation of Agriculture degree programmes. It also deliberates on Roster of Experts maintained for formation of AIC for the on-site visit and programme evaluation manual for programme evaluators.

Quality Assurance and Accreditation Awareness Seminars, 2016-17

S. No	Institution	Date	Venue	Chairperson	No. of Participants
1	University of Lahore, Lahore	26-10-16	Auditorium	Dean	100
2	The University of Agriculture, Peshawar	3-2-17	Video Conference Room	Director QEC	80
3	University of Management and Technology, Lahore	21-2-17	Conference Hall	Head Department of Food Science	10

VI. Profile of Teaching Faculty and Students Enrollment

16. One of the important activities of NAEAC is to maintain database of all Agriculture institutions that offer degree programmes. The database is updated from time to time to monitor changes in the annual intake, total enrollment, faculty quality and strength, infrastructure, academic and research facilities and other learning resources. Previously, it was updated in 2011-12 for only 18 Agriculture education institutions comprising five Agriculture universities, six Agriculture colleges, two Agriculture faculties and five Agriculture departments.

17. During 2016-17, the council provided structured forms relating to the faculty profile and students' enrollment to 36 institutions including Agriculture universities, colleges, faculties and Agriculture departments in general universities offering one or two degree programmes of Agriculture. Out of these 36 institutions, 34 responded and e-mailed filled-in structured forms to the council and two of them did not respond. Thus, the non-response rate was about five per cent. The faculty profile and students' enrollment analysis are given below:

Table 1. Teaching Faculty by Designation

S. No	Institution	Professor	Associate Professor	Assistant Professor	Lecturer	Total
1	Agriculture Universities (6)	147	106	326	146	725
2	Agriculture Faculties/ Campuses/ Institutions (9)	24	23	145	108	300
3	Agriculture Colleges (5)	6	16	130	66	218
4	Agriculture Departments (14)	13	14	90	77	194
Total (34)		190	159	691	397	1437

18. During 2016-17, about 1,437 faculty members are reported in the Agriculture degree programmes from 34 Agriculture education institutions. Out of these, 190 are professors, 159 associate professors, 691 assistant professors and 397 lecturers. Majority of the teaching faculty (50.5 per cent) is in the agricultural universities, followed by agricultural faculties/ campuses/ institutions (20.9 per cent) and Agriculture colleges (15.2 per cent). Surprisingly, the number of professors (in 34 institutions) is more than associate professors.

19. Table 2 indicates teaching faculty by qualification. The PhD qualified teaching staff is high in number in Agriculture universities (57.0%), followed by Agriculture faculties/ campuses/ institutions (19 per cent), Agriculture colleges (12.9 per cent). Similarly, number of Non-PhD teaching staff in Agriculture universities is also higher (34.4 per cent), followed by Agriculture faculties/ campuses/ institutions (25.5 per cent), Agriculture colleges (20.7 per cent). The overall teaching faculty of the Agriculture universities is 51 per cent of the reported teaching faculty in 34 institutions.

Table 2. Teaching Faculty by Qualification

S. No	Institution	PhD	Non – PhD	Total
1	Agriculture Universities (6)	582	143	725
2	Agriculture Faculties/ Campuses/ Institutions (9)	194	106	300
3	Agriculture Colleges (5)	132	86	218
4	Agriculture Departments (14)	113	81	194
Total (34)		1021	416	1437

20. In Agriculture universities, teaching faculty by nature of appointment (Table 3) shows that permanent/ regular faculty is 59.3 per cent, contractual faculty 3.3 per cent, TTS 23.6 per cent, IPFP 2.4 per cent, and visiting faculty 11.4 per cent. Regular teaching faculty of Agriculture faculties/ campuses/ institutions is 56.3 per cent, contractual 5.4 per cent, TTS 15.3 per cent, IPFP 5.7 per cent, and visiting faculty 17.3 per cent. Regular teaching staff in Agriculture colleges is 62.4 per cent, contract faculty 9.6 per cent, TTS faculty 6.9 per cent, IPFP faculty 18.3 per cent, and visiting faculty 2.8 per cent. Regular teaching faculty of the Agriculture colleges is the highest (62.4 per cent) while the visiting faculty staff is the lowest (2.8 per cent). Agriculture departments having regular teaching staff is (35.8 per cent), contract teaching staff (18.2 per cent), TTS (14.6 per cent), IPFP (2.6 per cent), and visiting faculty (28.8 per cent). The regular teaching staff is the highest (35.8 per

cent) and the teaching faculty on IPFP is the lowest (2.6 per cent) in Agriculture departments.

21. The regular staff in Agriculture universities (52.1 per cent), is more than Agriculture faculties /campuses/institutions (21.9 per cent), Agriculture colleges (15.1 per cent), and Agriculture departments (10.9 per cent). The contractual faculty of the Agriculture universities is 22.4 per cent as compare to Agriculture faculties/campuses/institutions (16.4 per cent), Agriculture colleges (18.1 per cent) and Agriculture departments (43.1 per cent).

Table 3. Teaching Faculty by Nature of Appointment

S. No	Institution	Regular	Contract	TTS	IPFP	Visiting	Total
1	Agriculture Universities (6)	470	26	187	19	90	792
2	Agriculture Faculties/Campuses/Institutions (9)	198	19	54	20	61	352
3	Agriculture Colleges (5)	136	21	15	40	6	218
4	Agriculture Departments (14)	98	50	40	7	79	274
Total (34)		902	116	296	86	236	1636

Students Enrollment

22. Semester-wise enrollment of B.Sc. (Hons) students during 2016-17 in all 34 institutions is given in Table 4. Total enrollment in 5-8 semesters is estimated about 7000. The largest enrollment of more than 50% is reported in six main agricultural universities. Agriculture faculties/ campuses/ institutions retained little more (20%) of the total enrollment whereas Agriculture colleges enrollment is only (10%) of the total students enrollment in B.Sc. (Hons).

Table 4. Semester wise Students Enrollment B.Sc. (Hons)

S. No	Institution	Semester				Total
		5	6	7	8	
1	Agriculture Universities (6)	1109	2115	933	1678	5835
2	Agriculture Faculties/ Campuses/ Institutions (9)	409	607	606	614	2236
3	Agriculture Colleges (5)	204	334	33	530	1101
4	Agriculture Departments (13)	355	668	253	400	1676
Total (34)		2077	3724	1825	3222	10848

23. Total enrollment in four semesters of M.Sc. (Hons) during 2016-17 exceeds eight thousand students. Table 5 shows that Agriculture universities have enrollment of more than six thousand students (78.2%) followed by Agriculture faculties/campuses/institutions with one thousand enrollment (12%). Number of Postgraduate students in Agriculture colleges and Agriculture departments were negligible and reported enrollment of 3.4% and 6% respectively of the total M.Sc. (Hons) students in 34 Agriculture education institutions of Pakistan. Overall, Students in the first and third semesters were about 1000, while in the second and fourth semesters, the number of students was reported to be almost 300 each.

Table 5. Semester wise Students Enrollment M.Sc. (Hons)

S. No	Institution	Semester				Total
		1	2	3	4	
1	Agriculture Universities (6)	826	2558	798	2249	6431
2	Agriculture Faculties/ Campuses/ Institutions (7)	73	368	125	448	1014
3	Agriculture Colleges (4)	27	137	5	113	282
4	Agriculture Departments (7)	108	150	86	154	498
Total (24)		1034	3213	1014	2964	8225

VII. Council Meetings

24. The 12th Meeting of the NAEAC was held on October 24, 2016 at 10:30 A.M. at the Mural Hall, HEC. The meeting was chaired by Dr. M. E. Tusneem, Chairman NAEAC and attended by 16 members including two proxies. There were two apologies and three absentees.

25. After recitation from the Holy Quran, the chair welcomed the members to the 12th Meeting of the council. He congratulated the new Vice Chairperson Prof. Dr. Nadeem Akhtar Abbasi and five new members of the council. The chair also paid



12th Council Meeting

compliments to the outgoing chairperson Prof. Dr. Shahana Urooj Kazmi for her contributions, commitment and keen interest in the council activities.

26. The chairman presented the status of major activities accomplished by the Council including the accreditation and evaluation visits by the Accreditation Inspection Committees (AICs), review meetings, zero visits, awareness seminars, and training workshops for programme Evaluators (PEs). He observed that number of institutions offering an Agriculture degree programme increased from 17 in 2008 to 35 in 2016. The Council had accomplished evaluation and rating of all the 299 degree programmes offered by these institutions. It would initiate second cycle of accreditation from December, 2016. After the overview of NAEAC's activities by the Chair; the 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. Roster of Programme Evaluators

27. In pursuance of Council byelaws, a roster of subject experts/ programme evaluators for each discipline of Agriculture is maintained and updated from time to time. These PEs are nominated by the VCs and Deans of Agriculture institutions on the request of the Council and are mostly senior and experienced professors. Senior scientists of Agriculture research organizations are also on the panel of experts. A one-page short CV of each PE along with e-mail ID and contact number is also available for official communication. The council organises capacity building training workshops and about 90 PEs have received training through three training workshops arranged by NAEAC/ HEC. All PEs associated with accreditation process have been very cooperative and they supported the cause of quality improvement of Agriculture degree programmes in Pakistan.

IX. Proposed Work Plan and Budget for FY 2017-18

1. Accreditation Activities

28. The primary function of the NAEAC is to organise and carry out a comprehensive programme of accreditation of Agriculture degree programmes adopting approved policies, procedures and criteria. The council commenced accreditation activities in June 2008. Initially, 170 degree programmes of 13 Agriculture institutions were reviewed and rated by

the Accreditation Inspection Committees (AICs) of NAEAC till Financial Year 2012-13. In the meantime, the number of institutions increased from 17 in FY 2008-09 to 34 in FY 2015-16. Hence, the first round of the evaluation/ accreditation process was accomplished covering all the 34 institutions with 299 degree programmes in FY 2015-16. The second round of reviewing and accreditation process has been initiated since January 2017. During 2016-17, in the second round of external evaluation and accreditation, 16 degree programmes out of 62 were reviewed in two major Agriculture universities including University of Agriculture, Faisalabad; and the University of Agriculture, Peshawar.

29. It is planned to carry-out second round of external evaluation and accreditation of 34 degree programmes out of 62 degree programmes during FY 2017-18 at four main Agriculture universities of Pakistan including University of Agriculture, Faisalabad: The University of Agriculture, Peshawar; Sindh Agriculture University, Tandojam: and PMAS AAU, Rawalpindi.

2. Orientation and Accreditation Awareness Seminars

30. Organisation and conduct of orientation and accreditation seminars in Agriculture education institutions is a regular activity of the council. Main objective of these seminars is to sensitise the stakeholders about the significance of accreditation process, its benefits and programme evaluation criteria and standards. The council has conducted 41 awareness seminars in 36 institutions till June 2017.

31. During 2017-18, four awareness seminars are planned to be organised at University of Veterinary and Animal Sciences, Lahore (UVAS); Minhaj University, Lahore; Afro-Asian Institute, Lahore; and University of South Asia, Lahore.

3. 4th Training Workshop for Programme Evaluators

32. The fourth training workshop of subject experts/ programme evaluators of NAEAC was planned in FY 2016-17 but could not be organized due to non-availability of the resource person from abroad. This year, with the support of Asia Pacific Quality Network (APQN), the Council has identified the resource person Prof. Dr. Jianxin Zhan, President of APQN and she has consented to act as a resource person. Hopefully, the three-days training workshop for 30 participants/ programme evaluators of NAEAC will be conducted during 2017-18. Main objectives of the training workshop are to improve the evaluation skills of programme evaluators in undertaking external evaluation and accreditation process and to

understand participatory SWOT Analysis and NAEAC best practices for external peer review process.

4. Review Meetings

33. Council initiated a programme of review meetings with the host institutions in 2014-15. The objective is to monitor the implementation status of the accreditation recommendations made for the improvement of the quality of the Agriculture education degree programmes covering teaching faculty, curriculum, infrastructures, teaching-learning resources and associated facilities. Till June, 2017, nine review meetings have been conducted with the Vice Chancellors, Deans, Directors and HoDs of the institutions concerned. Consensus-oriented recommendations of these review meetings were circulated to all concerned. The institutions were urged to make concerted efforts to improve the quality of the degree programme.

34. Three more review meetings are planned in Gomal University, D.I. Khan; Ghazi University, D.G. Khan; and the University of Poonch, Rawalakot.

5. Council Meetings

35. The 12th meeting of the council was convened in the last week of October 2016. Approved minutes of the meeting were mailed to all the members of the Council for information and record. Council plans to convene its 13th meeting in December, 2017.

6. Annual Report, 2016-17

36. In pursuance of its byelaws of the Council, preparation and dissemination of annual report is mandatory. Being the regular feature, nine annual reports (2007-08 to 2015-16) were compiled, published and circulated to all the council members and Agriculture education institutions. Compilation of tenth annual report (2016-17) is under process and would be available for printing in December, 2017.

7. Zero Visits

37. Zero visits are basically the assessment visits made by the subject expert/ programme evaluator to assess the current preparation and arrangements made by the Agriculture education institution for launching the new degree programme.

During 2016-17, six zero visits were carried out by the council including UOS, Lyallpur campus, Faisalabad; Hazara University, Mansehra; University of Lahore; UCA, IUB; Abdul Wali Khan University, Mardan; and Shaheed Benazir Bhutto University, Sheringal, Upper Dir. This year, four zero visits are planned in four institutions of the Punjab.

8. Parent and Student Alert

38. Flashing of Parent and Student Alert in the print media for all the stakeholders regarding non-accredited degree programmes is obligatory. Three such Parent Alerts have been flashed so far in national newspapers in 2011, 2012 and 2016 respectively. The advertisement was intended for prospective students to seek admission in only those degree programmes which are duly accredited with the council/ HEC. Flashing of fourth Parent and Student Alert is planned in spring 2018.

9. Audit Report

39. Reference Standard Operating Procedures (SOPs) of the Higher Education Commission for HEC established accreditation councils under para 4 of the Financial and Accounting Procedures, it is mandatory for each accreditation council to organise its audit regularly. The council regularly organises audit of its financial accounts through external audit/ commercial audit by a reputed audit firm. The report of the audit of the Council is being sent regularly to the QAA and Finance Division of HEC. So far, the council has organised nine audits by the reputed audit firm and record is maintained in the form of hard as well as soft form. Tenth audit of NAEAC for the FY 2016-17 shall be organised in the first week of July 2017.

Budget Utilisation for FY 2016-17 and Proposed Allocation for FY 2017-18

Code	Object	Budget Utilization 2016-17	Budget Allocation 2017-18
71-1	Establishment Costs	3,647,518	3,965,339
71-20	a. Honorarium for Programme Evaluators	405,000	445,500
	b Other Benefits	150,000	165,000
72-10	TA/ DA (Accreditation visits; 2 Council Meetings & Conference of Deans/ HoDs)	1,008,653	1,050,000
72-14	*Transportation	239,528	250,000
72-15	Vehicle Expenses	4,742	8,000
72-2	Communication	46,709	50,000
72-31	Stationery & other supplies	45,213	50,000
72-32	Printing and Publications	158,348	174,000
72-37	**Other Misc. Expenses (OE & RM)	33,198	40,000
72-43	Computer & Office equipment	80,790	30,000
72-44	Furniture & Fixture	28,680	15,000
72-50	***Audit Expenses	30,960	32,000
72-60	Publicity & Advertisement	48,815	390,000
72-63	Meetings/Seminars	60,225	100,000
Total		5,988,379	6,764,839

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

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

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

Budgetary Sources for FY 2017-18

i.	Opening balance as of July 1, 2017	Rs. 1.789 million
ii.	Expected HEC Grant for FY 2017-18	Rs. 4.000 million
iii.	Accreditation Fee (Estimate)	Rs. 1.000 million
	Total	Rs. 6.789 million

Annexure-I

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 Dean, Faculty of Agriculture, Lasbela University of Agriculture, Lasbela
5-Prof. Dr. Saifullah Dean, Faculty of Crop Protection The University of Agriculture, Peshawar	6-Prof. Dr. Ishtiaq Ahmad Rajwana Dean Muhammad Nawaz Shareef University of Agriculture, Multan
7-Dr. Nadeem Amjad Member/Incharge Pakistan Agricultural Research Council, Islamabad	8-Dr. Abid Mahmood Director General Ayub Agriculture Research Institute, Faisalabad
9-Dr. Muhammad Javed Tareen Director General Agriculture Research Institute, Quetta	10-Dr. Naveed Akhtar Director General Research Agriculture Research Institute, Tarnab, Peshawar
11-Mr. Muhammad Zafar Yab Haider Director Agriculture (Horticulture) Agriculture House, 21 Davis Road, Lahore	12-Prof. Muhammad Aslam Niazi Principal Balochistan Agriculture College, Baleli, Chaman Road, Quetta
13-Mr. Ahmad Said Chief Planning Officer Department of Agriculture, Livestock and Cooperatives, KPK Secretariat, Peshawar	14-Mr. Abid Hussain Qureshi Director, Agri. Extension 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. Iskandar M. Khan Director Premier Sugar Mills & distillery Co. Ltd 20-A, Markaz, F-7, Islamabad	18-Mr. Waseem Amjad Mahmood Secretary, Pak. Fruit Processors Association Shezan Intl. Ltd, 56 Bund Road, Lahore
19-Mr. Karim Aziz Malik Chief Executive M/s Barkat Rice Mills (Pvt) Ltd Plot No. 220-221, Street#1, I-10/3, Islamabad	20-Mr. Sheikh M. Akmal Director M/s Acro Spinning & Weaving Mills Ltd Lahore Cantt

Annexure-II

Minutes of 12th Meeting of NAEAC**Item# I: Confirmation of the Minutes of the Eleventh Meeting of NAEAC**

1. Secretary, NAEAC presented minutes of 11th meeting of the council for confirmation of the council members. In the absence of any comments, *the minutes of Eleventh Meeting of the Council were approved as presented.*

Item# II: Approval of the Accreditation Ratings of Agriculture Degree Programmes Evaluated During 2015-16

Decision: *The council members reviewed the evaluation ratings of 68 degree programmes in 16 institutions of the Punjab, Sindh, KPK and Balochistan covered by NAEAC during 2015-16 and approved the ratings as recommended. They, however, expressed their concern over the disappointing evaluation rating i.e. 75 per cent in less than satisfactory category mostly representing the newly established institutions.*

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 held with VCs, deans, and directors/ HoDs. The conclusions of these meetings are summarised below:

I. University College of Agriculture, University of Sargodha

- Need to induct senior level PhD faculty on top priority basis in all programmes. (Since last visit in 2013-14, little or no improvement observed in the urgently required infrastructure and learning resources, and the number of recommended textbooks, as well as access to IT facilities and HEC digital library).
- Accordingly, it was stressed that the faculty be placed/ accommodated in well-equipped offices.
- Adequate arrangements be made of the research farms with well-equipped laboratories.

- Appropriate action initiated to induct qualified lab technicians and other technical support staff.
- Local stakeholders be associated with the BoS and Faculty Board of the University for problem-oriented feedback.

II. Sindh Agriculture University, Tandojam

- Teaching faculty of various disciplines be strengthened including few senior professors and several lecturers.
- Mid-term and long-term faculty development plans be chalked out and implemented for building academic capacity of the faculty.
- Only qualified persons in the relevant field be recruited in the libraries, laboratories and experimental farms.
- Need to equip the laboratories of other remaining disciplines lacking equipment, lab protocols and safety measures be adhered.
- SAU needs to set up a small laboratory, equipment and maintenance unit (LEMU) headed by an instrumentation engineer for the whole laboratories system of the university.
- The main library is upgraded but still sufficient numbers of textbooks/ reference books are required with access to HEC digital library.
- Experimental research farms of the university need to be upgraded with farm machinery and implements, trained manpower and operational funds.

III. Faculty of Agricultural Sciences and Technology, BZU, Multan

- There is shortage of senior faculty in the disciplines of PBG, Entomology and Food Sciences etc. At least one professor in each discipline to be inducted, soon.
- Most of the laboratories have been upgraded and well-equipped. However, greenhouses and glasshouses (controlled condition environments) require further expansion and improvement.
- No faculty development plan is in place. Both long-term and short-term plans have to be developed and implemented.
- All PhD faculty members to be motivated to write research projects for grants from other than the university sources.

- Experimental farms, experimental orchards and plant nurseries need to be developed on scientific lines for research and training purposes.
- Internship programme of B.Sc. (Hons) has not yielded desired results. There is a need to make it more effective, rigorous and meaningful.
- Laboratory and field staff with only relevant qualifications and training needs to be inducted and existing staff should be provided training opportunities for their capacity building.

Decision: *Members appreciated the review meeting process initiated by the Council and recommended its continuation and follow-up.*

Item# IV: Proposed Annual Work Plan and Proposed Budget Allocations FY 2016-17

3. The annual work plan proposed for FY 2016-17 consists of five major activities including evaluation of 58 degree programmes through on-site visits of 12 institutions including Crop Physiology and Biotechnology degree programmes of SAU, Tandojam, three review meetings, five zero visits, four awareness seminars and a training workshop of programme evaluators. In all, the Council plans to undertake at least 20 visits to the concerned institutions. Based on the annual work programme, the estimated budget for 2016-17 is Rs. 6.20 million.

Decision: *The proposed allocation is in line with the activities planned for the year. The council members reviewed the work plan and proposed budget for implementation and endorsed the same for FY 2016-17.*

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

4. The council noted and appreciated that NAEAC exercises due diligence and financial prudence in its budget utilisation and maintains a good utilisation record of 95-98%. It however noted that the increase in HEC grant from Rs. 2.00 million to Rs. 4.00 million in 2012 is inadequate and is falling short due to inflation, rise in the salaries and benefits of the secretariat staff and higher costs of accreditation logistics and council meetings.

Decision: *The council agreed that the amount of Rs. 4.00 million approved in 2012 would not be adequate to meet the future needs of the Council and endorsed the proposed budget.*

Further, the Council members observed that enhancement in the HEC grant should be revised upward based on the current costs for next 4-5 years and recommended the proposal for enhancement of grant from Rs. 4.00 million to Rs. 7.00 million for next five years.

Item# VI: Revision of the Accreditation Fee Structure

5. The meeting was informed that the present accreditation fee structure is modest and is not meeting even the cost of on-site visit expenses. NAEAC accreditation fee is based on disciplines consisting of B.Sc. (Hons) and M.Sc. (Hons) degree programmes, whereas the other councils charge the accreditation fee based on degree programme. As such, there is a need to revise the accreditation fee, keeping in view the current actual costs, the budgetary support from HEC and the need to eventually make NAEAC a financially self-supporting entity. The present and proposed accreditation fee structure is placed below for the consideration and approval of the council members. It suggests modest and affordable increase which is still far below the actual cost of accreditation.

Existing and Proposed Accreditation Fee Structure of Agriculture Degree Programmes w.e.f. 2016-17

S. No	Existing Accreditation Fee Structure, 2015-16	Proposed Accreditation Fee Structure, 2016-17	
		Public Sector	Private Sector
	All Institutions		
i.	Minimum of Rs. 75,000/- with at-least Rs. 25,000/- for each additional discipline accredited.	At least Rs. 100,000 up-to three disciplines	At least Rs. 150,000 per discipline. (Based on full cost recovery)
ii.	Maximum of Rs. 150,000/- up to ten disciplines	Rs. 150,000/- Four to six disciplines	Rs. 200,000/- Four to six disciplines
iii.	Maximum of Rs.200,000/- for more than 10 disciplines	Rs. 200,000/- Seven to Ten disciplines	Rs. 250,000/- Seven to Ten disciplines
iv.	--	Rs. 250,000/- more than ten disciplines	Rs. 300,000/- more than ten disciplines

Decision: After discussion and satisfactory justification of the proposed increase, the Council approved the revised fee structure of each discipline for the public sector and private sector Agriculture education institutions.

Annexure-III

Profile of Teaching Faculty

1. Teaching Faculty by Designation

S. No	Institution	Professor	Associate Professor	Assistant Professor	Lecturer	Total
1	University of Agriculture Faisalabad (12)	40	31	146	43	260
2	Sindh Agriculture University, Tandojam (11)	23	29	47	3	102
3	The University of Agriculture, Peshawar (14)	54	23	58	32	167
4	PMAS Arid Agriculture University, Rawalpindi (11)	23	19	40	20	102
5	Lasbela University of Agriculture, Water & Marine Sciences, Uthal, Lasbela (6)	1	0	8	24	33
6	Muhammad Nawaz Shareef University of Agriculture, Multan (8)	6	4	27	24	61
7	Faculty of Agriculture, Gomal University, Dera Ismail Khan (5)	4	2	29	9	44
8	Faculty of Agriculture, The University of Poonch, Rawalakot (6)	11	2	16	19	48
9	Faculty of Agricultural Sciences, Ghazi University, Dera Ghazi Khan (5)	1	0	17	12	30
10	Faculty of Agricultural Sciences and Technology, B.Z.U., Multan (9)	7	13	44	8	72
11	The UAP–Amir Muhammad Khan (AMK), Campus Mardan (3)	0	2	6	8	16
12	UAF Sub-campus, Burewala (5)	0	1	10	7	18
13	Institute of Agricultural Sciences, University of the Punjab, Lahore (4)	1	2	17	5	25
14	Pakistan Forest Institute, Peshawar	0	0	3	22	25
15	University Institute of Diet and Nutritional Sciences, The University of Lahore (1)	0	1	3	18	22
16	College of Agriculture, BZU Sub – Campus Bahadur, Layyah (3)	0	1	17	0	18
17	Balochistan Agriculture College, Quetta (6)	2	11	10	28	51
18	University College of Agriculture & Envr. Sciences, The Islamia University of Bahawalpur (8)	2	1	46	12	61

Contd...

S. No	Institution	Professor	Associate Professor	Assistant Professor	Lecturer	Total
19	University College of Agriculture, University of Sargodha (11)	2	3	47	26	78
20	Shaheed Z.A. Bhutto Agriculture College Dokri (4)	0	0	10	0	10
21	Department of Agricultural Sciences Allama Iqbal Open University, Islamabad (3)	0	0	2	4	6
22	Department of Agriculture and Agribusiness Management, University of Karachi (2)	1	1	1	4	7
23	Department of Food Science and Technology, University of Karachi (1)	3	1	7	3	14
24	Department of Agricultural Sciences, University of Haripur (7)	2	2	24	13	41
25	Department of Agriculture, University of Swabi (5)	1	2	7	11	21
26	Department of Agriculture, Bacha Khan University Charsadda (3)	0	2	5	8	15
27	Department of Agriculture, Abdul Wali Khan University Mardan (4)	0	2	13	3	18
28	Department of Food Science and Nutrition, Govt. College University, Faisalabad (1)	1	2	15	11	29
29	Department of Food Science and Technology, Govt. College Women University Faisalabad (1)	1	0	5	0	6
30	Department of Food Science and Technology, Jinnah University for Women, Karachi (1)	1	0	1	11	13
31	Department of Forestry, Shaheed Benazir Bhutto University Sheringal, Dir (1)	0	0	0	4	4
32	Department of Agriculture and Food Technology, KIU, Gilgit (1)	0	0	7	2	9
33	Department of Food Science & Technology, University of Sargodha – Lyallpur Campus (1)	1	1	2	2	6
34	Department of Food Science, UMT, Lahore (1)	2	1	1	1	5
Total		190	159	691	397	1437

2. Teaching Faculty by Nature of Appointment

S. No	Institution	Regular	Contract	TTS	IPFP	Visiting	Total
1	University of Agriculture Faisalabad (12)	122	5	130	1	38	296
2	Sindh Agriculture University, Tandojam (11)	98	1	0	4	0	103
3	The University of Agriculture, Peshawar (14)	117	8	35	3	6	169
4	PMAS Arid Agriculture University, Rawalpindi (11)	87	4	3	1	35	130
5	Lasbela University of Agriculture, Water & Marine Sciences, Uthal, Lasbela (6)	19	1	4	1	8	33
6	Muhammad Nawaz Shareef University of Agriculture, Multan (8)	27	7	15	9	3	61
7	Faculty of Agriculture, Gomal University, Dera Ismail Khan (5)	37	4	0	0	3	44
8	Faculty of Agriculture, The University of Poonch, Rawalakot (6)	33	1	2	10	2	48
9	Faculty of Agricultural Sciences, Ghazi University, Dera Ghazi Khan (5)	14	4	8	4	0	30
10	Faculty of Agricultural Sciences and Technology, B.Z.U., Multan (9)	41	1	26	5	33	106
11	The UAP, Amir Muhammad Khan (AMK), Campus Mardan (3)	7	4	0	0	5	16
12	UAF Sub-Campus, Burewala (5)	11	0	7	0	0	18
13	Institute of Agricultural Sciences, University of the Punjab, Lahore (4)	8	5	11	1	8	33
14	Pakistan Forest Institute, Peshawar	25	0	0	0	10	35
15	University Institute of Diet and Nutritional Sciences, The University of Lahore (1)	22	0	0	0	0	22
16	College of Agriculture, BZU Sub – Campus Bahadur, Layyah (3)	1	0	9	7	1	18
17	Balochistan Agriculture College, Quetta (6)	48	3	0	0	0	51
18	University College of Agriculture & Environmental Sciences, Islamia University of Bahawalpur (8)	20	11	6	24	0	61

Contd...

S. No	Institution	Regular	Contract	TTS	IPFP	Visiting	Total
19	University College of Agriculture, University of Sargodha (11)	57	7	0	9	5	78
20	Shaheed Z.A. Bhutto Agriculture College Dokri (4)	10	0	0	0	0	10
21	Department of Agricultural Sciences Allama Iqbal Open University, Islamabad (3)	4	2	0	0	56	62
22	Department of Agriculture and Agribusiness Management, University of Karachi (2)	6	3	1	0	4	14
23	Department of Food Science and Technology, University of Karachi (1)	11	3	3	0	3	20
24	Department of Agricultural Sciences, University of Haripur (7)	17	19	4	1	0	41
25	Department of Agriculture, University of Swabi (5)	14	0	4	1	2	21
26	Department of Agriculture, Bacha Khan University Charsadda (3)	4	7	2	1	4	18
27	Department of Agriculture, Abdul Wali Khan University Mardan (4)	5	0	13	0	1	19
28	Department of Food Science and Nutrition, Govt. College University, Faisalabad (1)	14	1	11	2	1	29
29	Department of Food Science and Technology, Govt. College Women University Faisalabad (1)	3	1	0	1	2	7
30	Department of Food Science and Technology, Jinnah University for Women, Karachi (1)	7	6	0	0	2	15
31	Department of Forestry, Shaheed Benazir Bhutto University Sheringal, Dir (1)	4	0	1	0	0	5
32	Department of Agriculture and Food Technology, KIU, Gilgit (1)	7	1	1	1	2	12
33	Department of Food Science & Technology, University of Sargodha – Lyallpur Campus (1)	0	6	0	0	0	6
34	Department of Food Science, UMT, Lahore (1)	2	1	0	0	2	5
Total		902	116	296	86	236	1636

Annexure-IV

Annual Audit Report of NAEAC, 2016-17



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AUDITOR'S REPORT

We have audited the accompanying statement of cash receipts and expenditure of National Agriculture Education Accreditation Council for the year ended June 30, 2017 and a summary of significant accounting policies and other explanatory information (here-in-after referred to as the 'financial statement')

Basis of Preparation

The financial statement has been prepared by the management in accordance with the cash receipts and expenditure basis of accounting as described in note 3 thereto.

Management' Responsibility for the Financial Statements

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

Auditor's Responsibility

Our responsibility is to express an opinion on the financial statement based on our audit. We conducted our audit in accordance with the approved auditing standards as applicable in Pakistan. Those standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statement is free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statement. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statement, whether due to fraud or error, in making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statement 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 entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates, if any, made by the Management, as well as evaluating the overall presentation of the financial statement.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the financial statement presents fairly, in all material respects, the statement of cash receipts and expenditure of National Agriculture Education Accreditation Council for the year ended June 30, 2017 in accordance with the cash receipts and expenditure basis of accounting as described in note 3.

ISLAMABAD

Dated: 24/7/17

Zia Masood Kiani & Co.
ZIA MASOOD KIANI & CO.
(Chartered Accountants)

Engagement Partner
Zia Ullah- FCA



Targeting Success :- audit and advisory | company secretarial | corporate finance | financial planning | forensic | outsourcing | payroll | taxation

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**NATIONAL AGRICULTURE EDUCATION
ACCREDITATION COUNCIL**
RECEIPTS AND EXPENDITURES STATEMENT
FOR THE YEAR ENDED JUNE 30, 2017

	Note	2017 (Rupees)
Receipts	4	6,175,000
Expenditures		
Establishment costs		3,647,518
Honorarium for program evaluators		405,000
Other benefits		150,000
TA/DA		1,008,653
Transportation		239,528
Vehicle expenses		4,742
Communication		46,709
Stationery and other supplies		45,213
Printing and publications		158,348
Miscellaneous expenses		33,198
Computer and office equipment		80,790
Furniture and fixtures		28,680
Audit expenses		30,960
Publicity and advertisement		48,815
Meeting and seminars		60,225
		5,988,379
Excess of Receipts over Expenditure		186,621

The annexed notes from 1 to 9 form an integral part of these financial statements.


SECRETARY


FINANCE OFFICER

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**NATIONAL AGRICULTURE EDUCATION
ACCREDITATION COUNCIL**
NOTES TO THE RECEIPTS AND EXPENDITURES STATEMENT
FOR THE YEAR ENDED JUNE 30, 2017

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 Account has been prepared in accordance with the basis of accounting as described in Note 3.

Note 3

Basis Of Preparation

The Receipts and Expenditures Account 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	2017 Rupees
Annual grant from Higher Education Commission		4,000,000
Accreditation fee	4.1	<u>2,175,000</u>
		<u>6,175,000</u>
4.1 Accreditation fee		
Institute of Agricultural Sciences (IAGS), Lahore		75,000
Muhammad Nawaz Sharif University of Agriculture, Multan		75,000
University of Sargodha, Lyallpur Campus, Faisalabad		100,000
Hazara University, Mansehra		100,000
The University of Lahore, Lahore		150,000
The Islamia University of Bahawalpur		100,000
GCUF Sahiwal Campus		75,000
Abdul Wali Khan University Mardan		100,000
Gomal University, D.I. Khan		100,000
Amir Muhammad Khan Campus Mardan (UAP)		100,000

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

University of Sargodha	200,000
Shaheed Z.A.Bhutto Agriculture College, Dokri	150,000
Sindh Agriculture University, Tandojam	100,000
Government College Women University Faisalabad	100,000
University of Agriculture Faisalabad (UAF)	150,000
Lasbela University of Agriculture, Water and Marine Sciences	150,000
University of Karachi	100,000
University of Haripur	100,000
The University of Agriculture, Peshawar	150,000
	<u>2,175,000</u>

Note 5

Variance Analysis

	Budgeted	Actual	Variance	
	Rupees	Rupees	Rupees	Percentage
Establishment costs	3,650,000	3,647,518	2,482	0%
Honorarium for program evaluators	410,000	405,000	5,000	1%
Other benefits	180,000	150,000	30,000	17%
TA/DA	1,034,000	1,008,653	25,347	2%
Transportation	240,000	239,528	472	0%
Vehicle expenses	10,000	4,742	5,258	53%
Communication	60,000	46,709	13,291	22%
Stationery and other supplies	50,000	45,213	4,787	10%
Printing and publications	160,000	158,348	1,652	1%
Miscellaneous expenses	40,000	33,198	6,802	17%
Computer and office equipment	80,000	80,790	(790)	-1%
Furniture and fixtures	34,000	28,680	5,320	16%
Audit expenses	32,000	30,960	1,040	3%
Publicity and advertisement	120,000	48,815	71,185	59%
Meetings / seminars	100,000	60,225	39,775	40%
	<u>6,200,000</u>	<u>5,988,379</u>	<u>211,621</u>	

Note 6

Cash and Cash Equivalents

	2017
	Note
Cash in hand	38,764
Cash at bank	<u>1,750,700</u>
	<u>1,789,464</u>



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NATIONAL AGRICULTURE EDUCATION ACCREDITATION COUNCIL*Notes to the Financial Statements*

Note 7

Tax Payable

	Note	2017 Rupees
Withholding Tax Payable - Salaries		<u>17,169</u>

Note 8

Fixed Assets

Council expense out all fixed assets purchased during the year, but it maintains a memo account of all the fixed assets purchased since inception to year end 2017. Total Cost of all assets purchased till June 30, 2017 is Rs. 1,275,353. Fixed Asset Memorandum Account as maintained by the Council is attached as annexure to these financial statements (Ref; Annexure A).

Note 9

General

9.1 Figures in these financial statements have been rounded off to the nearest rupee.

9.2 These financial statements were authorized for issue by the Council on 24-7-2017. *thu*

Nasham
SECRETARY

R. Mehtab
FINANCE OFFICER

Annexure-V

Press Releases

Higher Education Commission - Pakistan

News & Views

November-December 2016

12th NAEAC Meeting Reviews Reports on 68 Degree Programmes of Various Institutions



The 12th meeting of the National Agriculture Education Accreditation Council (NAEAC) was recently held at the Higher Education Commission Secretariat to discuss issues pertaining to agricultural institutions and their academic programmes. Dr. M. E. Tusneem, Chairman, NAEAC presided over the meeting.

The Chair congratulated Dr. Nadeem Akhtar Abbasi, the new Vice Chairperson of NAEAC, and other five new members of the Council and also paid his compliments to Dr. Shahana Urooj Kazmi, the outgoing Chairperson, for her commitment and keen interest in the Council activities. Speaking on the occasion, Dr. M. E. Tusneem shared the progress

of the Council activities accomplished during 2015-16 including accreditation activities, zero visits, awareness seminars, review meetings, training workshops for programme evaluators, parent and student alerts, annual report and audit report. The Council reviewed the experts reports on 68 degree programmes of 16 institutions of the Punjab, Sindh, Khyber Pakhtunkhwa and Balochistan during 2015-16 and endorsed the evaluation ratings.

The proposed Annual Work Plan and Budget for the FY 2016-17 were also approved. Increase in the annual HEC grant for the NAEAC was recommended along with revised accreditation fee structure for public and private sector institutions.

Higher Education Commission - Pakistan

News & Views

March-April 2017

Follow-up Visit of NAEAC AICs to LUAWMS Agriculture Faculty



Five Accreditation Inspection Committees (AICs) made a follow-up two-day visit to Lasbela University of Agriculture, Water and Marine Sciences (LUAWMS) with the approval of NAEAC.

The AICs consisted of senior academicians including Dr. Muhammad Akbar Anjum (Horticulture), Dr. Rao Abdul Qayyum (PBG) from Bahauddin Zakariya University (BZU), Multan and Dr. Shamsuddin Tunio (Agronomy), Dr. Muhammad Shafi Nazamani (Entomology) and Dr. Inayat Ullah Rajpar (Soil Science) from Sindh Agriculture University (SAU), Tandojam for Horticulture, PBG, Agronomy, Entomology/ Plant Pathology and Soil Sciences degree programmes respectively.

The on-site follow-up visit commenced with a meeting with the Vice Chancellor and Pro-Vice Chancellor. The AICs were briefed about the university and also updated on the recent developments in the Faculty of Agriculture. After that

an overview of the degree programmes was given by the Dean Faculty of Agriculture. It was followed by a detailed discussion on various aspects of the faculty and degree programmes. Subsequently, each committee had a detailed visit of the respective department.

The first on-site visit of the AICs to the degree programmes (BSc Honors) of Agronomy, Entomology, Plant Breeding and Genetics, Horticulture, Soil Science and Plant Pathology was carried out at Lasbela University of Agriculture, Water and Marine Sciences (LUAWMS) on May 20, 2015. Five AICs were constituted by the Chairman, NAEAC and the Secretary of Council coordinated the activities of the visit of the Program Evaluators/Experts. The programme experts assigned the rating of Y1, Y2 and Y3 to PBG, Entomology, Agronomy, Horticulture, Soil Science and Plant Pathology respectively. Hence, these degree programmes were deferred for a follow-up visit.

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روزنامہ پاکستان ملتان
تاریخ: 11-02-17

جیشن ایگریکلچرل ایجوکیشن کونسل کی سربراہی میں گزین اے کے سے اس کی جاتی ہے

ملازمین کے ساتھ ساتھ گزین اے کے اور اس کے ساتھ ساتھ جیشن ایگریکلچرل ایجوکیشن کونسل کی سربراہی میں گزین اے کے سے اس کی جاتی ہے

جیشن ایگریکلچرل ایجوکیشن کونسل کی سربراہی میں گزین اے کے سے اس کی جاتی ہے

BUSINESS
DAILY JANG LAHORE

جنگ جھوڑ

قومی سیکرٹی کے ہدف حاصل کرنے سے ایک فریٹ میں آج بھی ماڈرن سٹیٹ

قومی سیکرٹی کے ہدف حاصل کرنے سے ایک فریٹ میں آج بھی ماڈرن سٹیٹ

جیشن ایگریکلچرل ایجوکیشن کونسل کا دورہ

جیشن ایگریکلچرل ایجوکیشن کونسل کا دورہ

جیشن ایگریکلچرل ایجوکیشن کونسل کا دورہ

Daily Jang Lahore, 15-12-2016

سرگودھا ایگریکلچرل ایجوکیشن کونسل کے وفد کا اکرانہ نظر سلطانہ کے سرگودھا ایگریکلچرل ایجوکیشن کونسل کے تمام شعبوں کو اپ گریڈ کر دیا نظر سلطانہ

سرگودھا ایگریکلچرل ایجوکیشن کونسل کے وفد سے گفتگو مختلف شعبوں کا معائنہ

سرگودھا ایگریکلچرل ایجوکیشن کونسل کے وفد سے گفتگو مختلف شعبوں کا معائنہ

47

جیشن ایگریکلچرل ایجوکیشن کونسل کا دورہ

جیشن ایگریکلچرل ایجوکیشن کونسل کا دورہ

TRIBUNE

FOOD SECURITY
'Modernisation of agriculture vital for growth'

OUR CORRESPONDENT PAKISTANI: The modernisation of agriculture system is vital for agriculture growth and sustainable food security, said National Agriculture Education Association Council (NAEAC) Chairman Mr. Yasir.

He, along with his nine-member team, visited the University of Agriculture, Faisalabad on Thursday.

"We are now making all our efforts to evolve mechanism of quality assessment of agriculture education to meet current and emerging challenges of knowledge economy," he said.

He added that it was need of the hour to increase per acre production in order to meet the demand of ever-increasing population.

The NAEAC is mandated to implement agricultural education degree programmes based on the HEC policies to ensure quality of education, he said. He appreciated the steps being taken by the university for agricultural education and to cope with the challenges of the food security.

جیشن ایگریکلچرل ایجوکیشن کونسل کا دورہ

جیشن ایگریکلچرل ایجوکیشن کونسل کا دورہ

جیشن ایگریکلچرل ایجوکیشن کونسل کا دورہ

04.11.2016

فانٹیک

زندگی یو صالح ڈو طری و طائرئیل

تیر بھی تفصیل معلوم کیا

قاریاں! یو صالح ڈو طری و طائرئیل

قاریاں! یو صالح ڈو طری و طائرئیل

Picture Gallery



12th Council Meeting



Visit AICs to Abdul Wali Khan University, Mardan



Visit of AICs to The UAP – AMK Campus, Mardan



Visit of AICs to SZAB Agriculture College, Dokri



Visit of AICs to University of Karachi



Visit of AICs to UCA, University of Sargodha



Visit of AIC to Govt. College Women University, Faisalabad



Visit of AICs to University of Agriculture, Faisalabad



Visit of AICs to The University of Agriculture, Peshawar



Visit of AICs to LUAWMS, Uthal



Visit of AIC to Hazara University, Mansehra



Review Meeting at UCA, The Islamia University of Bahawalpur



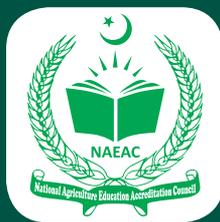
Awareness Seminar at University of Lahore



Awareness Seminar at The University of Agriculture, Peshawar



Review Meeting at University of Haripur



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