



# ANNUAL REPORT 2020-21

**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 and allied degree programs in private and public sector agriculture education institutions of Pakistan.

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

- Plan and implement a comprehensive program of accreditation of agriculture and allied programs leading to degrees 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 allied 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

AAS	Atomic Absorption Spectrometry
AIC	Accreditation Inspection Committee
AJK	Azad Jammu and Kashmir
ALP	Agricultural Linkages Program
ARF	Agricultural Research Fund
BKU	Bacha Khan University
BPS	Basic Pay Scale
BZU	Bahauddin Zakariya University
DNA	Deoxyribonucleic Acid
ED	Executive Director
FST	Food Science and Technology
GCUF	Govt. College University Faisalabad
GIS	Geographic Information System
HEC	Higher Education Commission
HEI's	Higher Education Institutions
HoD	Head of Department
IPFP	Interim Placement Faculty Program
IPM	Integrated Pest Management
IT	Information Technology
KFUEIT	Khwaja Freed University of Engineering & Information Technology
KIU	Karakoram International University
MNS	Muhammad Nawaz Shareef
MoU	Memorandum of Understanding
NAEAC	National Agriculture Education Accreditation Council
NARC	National Agricultural Research Centre
NCRC	National Curriculum Revision Committee
NRPU	National Research Program for Universities
ORIC	Office of Research Innovation and Commercialization
PBG	Plant Breeding and Genetics
PCR	Polymerase Chain Reaction
PERN	Pakistan Education and Research Network

PFI	Pakistan Forest Institute
PMAS	Pir Mehr Ali Shah
QAA	Quality Assurance Agency
QEC	Quality Enhancement Cell
R&D	Research and Development
RRI	Range Research Institute
SAU	Sindh Agriculture University
SBB	Shaheed Benazir Bhutto
SFAS	School of Food and Agricultural Sciences
SOP	Standard Operating Procedure
SST	Seed Science and Technology
SZABAC	Shaheed Zulfiqar Ali Bhutto Agriculture College
TTS	Tenure Track System
UAF	University of Agriculture, Faisalabad



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## Chairperson's Message

It is my honor to present Fourteenth Annual Report of National Agriculture Education Accreditation Council (NAEAC) HEC Islamabad. It covers council activities during fiscal year 2020-21 related to accreditation of institutions providing education in various disciplines of agricultural and allied sciences. It also provides detail of other activities undertaken by NAEAC including review meetings with institutions, quality assurance and accreditation awareness seminars, budget allocation and utilization, annual audit report, annual work plan and budget for the upcoming financial year 2021-22.



During the year 2020-21, the council successfully carried out accreditation visits of 19 institutions (53 degree programs) throughout the country and conducted six awareness seminars. Statistically accreditation evaluation data express a fair degree of improvement in the rating of evaluated programs however, decline in skill sets of graduate is a common concern across Pakistan which is normally blamed on COVID-19 pandemic since no or little practical work was conducted. However, initiation of Crash Programs for makeup of lost practical work by certain HEIs after situation normalization is pleasing to observe. Increase in unprecedented number of degree programs and number of admissions at undergraduate and postgraduate level is still a big concern for the production of professionally skilled and viable graduates.

Initiation of online Agricultural Professional Registration System in line with other councils will be a game changer for the future of agricultural and allied sciences graduates. Augmentation in purview of NAEAC for accreditation of agriculture and allied sciences subjects has increased to 24 degree programs which also demands rise in program evaluator's pool. Accordingly council is very much committed to conduct fifth program evaluator's workshop in next financial year. Financial sustainability through investment plans for the progressive future council activities and accomplishment of world class accreditation activities in best manners are the important challenges ahead.

I am indebted to my honorable council members for their intellectual contribution, constructive criticism and valued support. Guidance provided by Dr. Tariq Banuri, Chairman HEC, Dr. Shaista Sohail, ED HEC, Mr. Nasir Shah, Director/In-charge QAA and support of QAA Secretariat HEC, Islamabad is of immense importance for the growth of council. Co-operation by the Vice Chancellors, Deans, Director QEC and Departmental Chairpersons of concerned HEI's is a source of inspiration for my team. Devotion and commitment extended by NAEAC Secretariat for judicious implementation of tasks in professional manners is also of enormous significance for the success and progression of council.

**Prof. Dr. Ishtiaq A. Rajwana**  
Chairperson, NAEAC

# Executive Summary

NAEAC is one of the five accreditation councils established by Higher Education Commission of Pakistan and is mandated to accredit agriculture and allied degree programs in Pakistan. The basic purpose of accreditation is to help improvement in the quality of higher education, enhance the capacity of institutions and upgrade their infrastructure in order to achieve and sustain academic excellence. The NAEAC strives to ensure a consistent and transparent external evaluation and accreditation mechanism of agriculture and allied education degree programs across Pakistan.

During Financial Year 2020-21, the council carried out several accreditation visits, pre-accreditation/zero visits, awareness seminars and review meetings.

Pre-accreditation/zero visits are basically conducted to make preliminary assessment of the planning and preparation by the institution during launching of new degree program. It is meant to review and guide the institutions of agriculture and allied degree programs based on HEC requirements for initiating a new degree program.

The purpose of quality assurance and accreditation awareness seminar is to explain the process, procedure and other pre-requisites of accreditation to the stakeholders. It is an ongoing activity of the council. Review meeting is conducted to access the implementation status of recommendations made for improvement of quality of agriculture and allied education degree programs encompassing teaching faculty, curriculum design, infrastructures, teaching-learning resources and associated facilities. A summary of all activities conducted during 2020-21 is presented in the following table.

**Summary of Province-wise NAEAC activities during the fiscal year 2020-21.**

Nature of Activity		Punjab	Sindh	Khyber Pakhtunkhwa	Balochistan	Azad Jammu & Kashmir	Total
Accreditation Visit	HEI's	10	02	05	01	01	19
	Programs	26	03	16	06	02	53
Pre-Accreditation /Zero Visit	HEI's	02	02	01	0	0	05
	Programs	02	04	01	0	0	07
Awareness Seminar	HEI's	02	0	04	0	0	06
	Programs	02	0	12	0	0	14
Review Meetings	HEI's	01	01	01	01	0	04
	Programs	05	07	04	06	0	22
Total	HEI's	15	5	11	02	01	34
	Programs	35	14	33	12	02	96



## Accreditation Activities

During 2020-21, main emphasis of the accreditation process was on follow up visits besides second round visits in seventeen institutions. Moreover, eight formal visits were carried out for new degree programs in two institutions. Overall 53 degree programs were evaluated and rated in Punjab, Khyber Pakhtunkhwa, Sindh, Balochistan and AJK. A summary of these activities is given below:

### A. Minhaj University, Lahore

#### 1. Summary of AIC Visit of B.Sc. (Hons.) Food Science & Technology

Particular	Previous Visit	Current Visit
Nature of Visit	Formal Visit	Follow-up Visit
Program Evaluators	Prof. Dr. Masood Sadiq Butt Dr. Muhammad Issa Khan	Dr. Muhammad Umair Arshad Dr. Shinawar Waseem Ali
Date of Visit	April 18, 2018	September 28, 2020
Rating	Y <sub>1</sub> with 620 score (62%)	X <sub>3</sub> with 665 score (66.5%)
Remarks	Rating improved	

#### Strengths

(i) The School of FST-Minhaj University is situated in Lahore, capital of Punjab, hence connects not only with food industry but also other public sector organizations i.e. Punjab Food Authority, PCSIR etc. for joint ventures; (ii) Available laboratories and classrooms for FST degree program are spacious as



compared to contemporary private institutions in Lahore; (iii) Management is enthusiastic to develop and maintain favorable intellectual environment.

## Weaknesses

- (i) Senior faculty at the level of Professor and Associate Professor in the field of FST is lacking;
- (ii) Statutory bodies like Board of Studies, Faculty Board and Academic Council either lacking or not very much functional;
- (iii) Some of the laboratories are lacking in state of the art equipment;
- (iv) Industry-academia linkages are weak. MoUs provided are not very much relevant and functional;
- (v) No record of statutory bodies establishment.

## AIC Recommendations

- (i) Further improvements are required in the existing labs. and infrastructure by the addition of new sophisticated equipment;
- (ii) More qualified and experienced faculty especially one or two Professors or Associate Professors must be inducted with FST qualifications to maintain the structural hierarchy;
- (iii) Food science courses must be only taught by the faculty having background qualification of food science and technology;
- (iv) There is need to adopt competitive salary packages for the current faculty members;
- (v) Ph.D. faculty to be encouraged to write projects for winning research grants;
- (vi) Statutory bodies like Board of Studies, Faculty Board and Academic Council be made functional properly for any academic decision;
- (vii) Maintenance of complete record of decisions made by the statutory bodies should be communicated to School;
- (viii) The existing labs. should be strengthened as well as some new labs. to be launched to support this degree program;
- (ix) Construction of food processing hall equipped with pilot-scale units is a prerequisite to improve the practical skills of students and promote the concept of entrepreneurship;
- (x) MoUs must be signed to promote collaboration with relevant industry and research organizations for intellectual advancement of faculty and students;
- (xi) Video-conference room for students must be established to cater the needs of online seminars and conferences etc.;
- (xii) Course review reports and curriculum revision record should be maintained properly;
- (xiii) Scheme of studies must be revised as per HEC criteria for the degree of BS in Food Science & Technology. Credit Hours fall should be allocated accordingly. Four credit hours, courses should be modified to three credit hours;
- (xiv) Course from allied disciplines i.e. horticulture, plant pathology and entomology must be revised to furnish the knowledge and skills of food science students;
- (xv) Exam results must be checked by competent authority and evaluation should follow a logical parabola i.e. all students securing 'A' grade needed to be double checked;
- (xvi) Lab. safety manuals, operating manuals and log books should be readily available in labs.;
- (xvii) Students must be trained to access the HEC digital resources;
- (xviii) University website must be



updated having complete information of the faculty profiles, degree program offered and curriculum being followed; (xix) Establishment of well-furnished common rooms for boys and girls separately; (xx) More emphasis should be paid on students paid internship programs and industrial trainings/ outreach through academia-industry linkages; (xxi) Ensure study tours of students for useful exposure and rewarding interaction; (xxii) Students counseling office should be established at the School level. Likewise, the tutorial system should be implemented in true spirit for capacity building and to uplift the leadership skills of students; (xxiii) Students must be encouraged to participate in co-curricular activities etc.; (xxiv) Transport and hostel facilities should be provided to students; (xxv) Course withdrawal policy and migration policy should be notified by the university; (xxvi) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (xxvii) The industrial linkages must be developed and strengthened.

## B. University of Management and Technology, Lahore

### 1. Summary of AIC Visit of B.S Food Science & Technology

Particular	Previous Visit	Current Visit
Nature of Visit	Formal Visit	2 <sup>nd</sup> Round Visit
Program Evaluators	Prof. Dr. Masood Sadiq Butt	Dr. Saeed Akhtar Dr. Tauseef Sultan
Date of Visit	November 13, 2018	September 30, 2020
Rating	X <sub>3</sub> with 650 score (65%)	X <sub>3</sub> with 690 score (69%)
Remarks	No improvement	

### Strengths

(i) The school has 07 faculty members, out of which 02 are Associate Professors, 03 Assistant Professors and 02 are Lecturers. Most of them are foreign qualified with Ph.Ds. from China, Australia, New Zealand and Japan; (ii) Faculty has a good number of publications in HEC approved national and international journals; (iii) Lab. facilities are found to be very good with reasonably trained staff; (iv) Sufficient infrastructural facilities are available to accommodate the existing number of students.

## Weaknesses

(i) Pilot scale food processing plant for students for in-home learning and training does not exist; (ii) (SFAS) lacks senior faculty at the level of Professor; (iii) Insufficient operational budget hinders the research activities at SFAS; (iv) Labs. need to be equipped with some hi-tech equipment such as atomic absorption spectrophotometer, high performance liquid chromatography, etc.



## AIC Recommendations

(i) Senior faculty has to be appointed to make sure one Professor should be serving with SFAS; (ii) Increased budget for chemicals, glassware and supplies should be at hand in SFAS; (iii) Further appointments of faculty at Lecturer level may be made; (iv) The salary package of the existing faculty has to be revisited to make it at par with public sector universities; (v) The SFAS must be provided with food processing unit (pilot plant unit) such as canning unit, beverage units for carbonated, non-carbonated beverages and cold storage units; (vi) Industry academia linkages and industry visits should be improved; (vii) Frequency of holding seminars/conferences/ trainings/symposia may be enhanced; (viii) Faculty development in terms of postdoc, facilities has to be provided to the faculty; (ix) Extracurricular activities for the students must be promoted; (x) Students should be encouraged and trained to consider introducing start-ups in food business i.e. entrepreneurship culture among students has to be promoted; (xi) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester.

## C. University of Agriculture, Faisalabad

### 1. Summary of AIC Visit of B.Sc.(Hons.) Agribusiness

Particular	Previous Visit	Current Visit
Nature of Visit	Follow-up Visit	2 <sup>nd</sup> Round Visit
Program Evaluators	Dr. Dilawar Ali Khan Dr. Abdul Hayee Qureshi	Prof. Dr. Abdul Saboor
Date of Visit	December 02, 2015	October 26, 2020
Rating	X <sub>3</sub> with 652 score (65%)	X <sub>1</sub> with 762 score (76.2%)
Remarks	Rating improved	

#### Strengths

(i) Excellent human resource with advanced degrees, foreign exposure and expedience both in teaching and research; (ii) Ideal and easily accessible location in the city Faisalabad which is the hub of business community; (iii) Quite reasonable infrastructure having further capacity and potential to be enhanced; (iv) University with its good name and fame has potential to invite collaborations from all over the world.

#### Weaknesses

(i) Slight mismatch between what is taught and what is actually needed in the market; (ii) Limited opportunities for faculty development.

#### AIC Recommendations

(i) The faculty needs to adopt a teaching philosophy that could create passion for learning among the students in such a way that they could solve real life business problems through reasoning and wisdom. A special training of faculty is required for achieving this prescribed goal; (ii) The faculty should be tuned in for providing interactive learning environment in the class rooms by giving importance to every learner and by reaping his or her potential keeping every one's uniqueness in view. Practical orientation in some subjects may further be improved by taking business community on board; (iii) The faculty may also be developed and sensitized to train the students keeping in view the rapidly growing services sector in the country and aboard. Curriculum needs to be revisited and improved on these lines by engaging entrepreneurs from the services sector and people from chamber bodies; (iv) The



strengthening of Faculty may also be made by developing linkages with top business schools of the world including nationally renowned universities like that of LUMS and NUST. The ultimate goal should be to initiate joint degree and diploma programs as per demand of the commercial businesses and agriculture trade; (v) Besides inducting new teachers, the existing ones may be promoted for avoiding frustration and leaving encouraging message for those waiting in the queue; (vi) The leadership of the institute should remain in the hands of relatively qualified faculty rather than outsiders so as to improve the ownership of all the academic and administrative affairs. A regular director of the institute and that too from within the relevant faculty would be helpful in managing the academic governance; (vii) There should be a well-established and well equipped library containing world class journals and standard text books. This should be run by a professionally trained person. The environment of library should be conducive both for the faculty and the students; (viii) Seminar series may be started in which some renowned agriculture business entrepreneurs or marketing persons are invited for understanding grass root realities and understanding real time problems of the business community. Some research ideas may be taken up through such innovative adventures; (ix) Some workable strategies need to be developed for containing the trust deficit between students and teachers and between faculty and administration; (x) The direction of research may be diverted to policy need which is only possible if real problems of business community are identified and researched according; (xi) The Industrial linkages must be strengthened.



## 2. Summary of AIC Visit of B.Sc. (Hons.) Seed Science & Technology

Particular	Previous Visit	Current Visit
Nature of Visit	Formal Visit	2 <sup>nd</sup> Round Visit
Program Evaluators	Dr. Shahid Masood	Dr. Waqas Malik
Date of Visit	December 02, 2015	October 26, 2020
Rating	X <sub>3</sub> with 680 score (68%)	X <sub>2</sub> with 735 score (73.5%)
Remarks	Rating improved	

### Strengths

(i) Eighteen Ph.D. faculty members are rendering their best services for the betterment of department; (ii) Faculty is reasonably involved in the research activities and publishing their work in national and international journals; (iii) Germ-plasm of various crops has been collected by the department to develop new breeding material for research at graduate and postgraduate level and a seed library has been established by the department; (iv) Availability of a DNA fingerprinting lab., seed health lab. and seed physiology lab. with desired equipment for basic and applied research and hands-on trainings of students; (v) A substantial amount of funding has been won by the faculty from various funding agencies.

### Weaknesses

(i) No timely promotions of faculty; (ii) Shortage of budget for conducting research and maintenance of laboratories; (iii) Limited lab. space, office facilities, and there is no separate departmental library, class rooms and seminar rooms exclusively dedicated for department of Seed Science & Technology; (iv) Non-availability of sufficient number of computers for students and staff; (v) No separate Board of studies and administrative head for department of Seed Science & Technology; (vi) Non availability of independent BoS and Faculty Board.

### AIC Recommendations

(i) A separate Board of Studies for the department of Seed Science & Technology (SST) should be constituted to deal the academic matters of the department; (ii) Department of SST is working under the administrative control of the chairman department of Plant Breeding and Genetics (PBG). It will be better to upgrade the department of PBG to the institute of PBG and SST should work as a division of this institute with separate administrative head. The institute may be headed by the director. It will

help to deal the academic matters of SST in better way, otherwise an independent chairman of SST be made; (iii) Issue of long awaited promotions of faculty members must be resolved; (iv) Capacity building programs for teaching staff must be initiated to equip the faculty with modern teaching gadgets; (v) Funds for graduate and postgraduate studies should be increased to a reasonable extent to conduct impacted research; (vi) More research funding exclusively for the department of SST should be hunted by the faculty from national and international funding agencies; (vii) Lab. facilities must be upgraded with all operational means; (viii) Facility of e-library and computer lab. at departmental level should be provided to the students of the department for easily approaching online journals, books and research paper etc.; (ix) Placement Bureau should be established for the students to provide job opportunities after completion of their degrees; (x) New books related to offered courses must be included in the library stock; (xi) A reward based system must be initiated for the faculty members and researchers to promote the research activities; (xii) New purpose built infrastructure should be built for the department of SST; (xiii) The industrial linkages must be strengthened.

## D. UAF Sub Campus Depalpur, Okara

### 1. Summary of AIC Visit of B.Sc. (Hons.) Agronomy

Particular	Previous Visit	Current Visit
Nature of Visit	Zero Visit	Formal Visit
Program Evaluators	Prof. Dr. Nazim Hussain	Prof. Dr. Nazim Hussain
Date of Visit	October 14, 2019	November 04, 2020
Rating	Not applicable	Y <sub>1</sub> with 640 score (64%)

#### Strengths

(i) Availability of basic required infrastructure consisting of newly constructed academic block, hostels, residences and research farm; (ii) Well-equipped laboratory with basic and necessary equipment available for carrying out research activities; (iii) Audio-visual aids and video conference room for meetings and seminars are available; (iv) Office and field staff is accessible and resource as student is also available for in campus and outreach activities.

## Weaknesses

(i) Deficiency of regular faculty members; (ii) There is a shortage of technical laboratory staff; (iii) There is no equipment repair and maintenance engineer; (iv) There is no operational/departmental budget for research activities; (v) There are limited transport facilities for outreach activities.

## AIC Recommendations

(i) Appointing faculty on permanent basis (BPS/TTS) according to HEC criteria; (ii) Senior faculty should be inducted to run the departmental activities smoothly; (iii) Addition of new and latest edition of recommended text books in department as well as main library; (iv) Data base should be developed for students alumni activities; (v) Independent recurring budget must be allocated to make the department functional; (vi) Appointment of qualified laboratory staff (Lab. Superintendent, Lab. Technician and Lab. Assistant) along with field staff; (vii) Provision of transport, sports and medical related facilities to the students; (viii) The industrial linkages must be developed and strengthened; (ix) QEC report should be made available to respective senior most teachers (through Principal) for appreciation as well as necessary counseling of the concerned staff; (x) The internet issue certainly needs to be resolved.



## 2. Summary of AIC Visit of B.Sc.(Hons.) Plant Breeding & Genetics

Particular	Previous Visit	Current Visit
Nature of Visit	Zero Visit	Formal Visit
Program Evaluators	Prof. Dr. Abdul Qayyum	Dr. Syed Bilal Hussain
Date of Visit	October 14, 2019	November 04, 2020
Rating	Not applicable	Y <sub>1</sub> with 640 score (64%)



## Strengths

(i) The department has the facility of spacious classrooms equipped with one multimedia projector and screen; (ii) The department has its own research farm; (iii) The labs. are fully operational with student practical class work.

## Weaknesses

(i) The department is lacking full time faculty especially senior faculty; (ii) the department is lacking operational, lab. and library funds; (iii) the current study tours are not sufficient to meet the degree requirement; (iv) Text and reference books need to be updated with latest editions and topics on new trends in PBG; (v) There is no departmental library.

## AIC Recommendations

(i) Induction of minimum 6 faculty members with the right mix of 1:1:2:2 of Professor, Associate Professor, Assistant Professor and Lecturers is inevitable; (ii) Addition of new and latest edition of recommended textbooks in departmental as well as main library; (iii) Field visits be arranged regularly for the students for practical exposure; (iv) To improve the quality of education, faculty should be provided ample opportunities for short and long term training in developed countries; (v) MoU should be signed with coordinating departments to make it more meaningful; (vi) The Industrial linkages must be developed and strengthened; (vii) QEC report should be made available to respective senior most teachers for appreciation as well as necessary counseling of the concerned staff; (viii) Students facilitation services like increasing financial assistance to needy students must be ensured; (ix) Funding should be provided to chair to manage routine expenditures.





### 3. Summary of AIC Visit of B.Sc. (Hons.) Plant Pathology

Particular	Previous Visit	Current Visit
Nature of Visit	Zero Visit	Formal Visit
Program Evaluators	Prof. Dr. Rashida Atiq	Prof. Dr. Rashida Atiq
Date of Visit	October 14, 2019	November 04, 2020
Rating	Not applicable	Y <sub>3</sub> with 520 score (52%)

#### Strength

(i) The department has one sharing research laboratory with plant protection. This laboratory is equipped with laminar flow, stabilize mechanical shaker, VA stabilizer, refrigerator, digital analytical balance, bench top pH meter, refrigerator, micropipette, water bath, microscopes, stereomicroscope and disease specimen boxes.

#### Weaknesses

(i) Acute shortage of faculty members as no hierarchy exists i.e. no Professor, Associate Professor and Lecturers. Only one Assistant Professor (TTS) is running the department along with three visiting faculty members. No interim IPFP in place. Parent university should have to revise the policy for taking IPFP; (ii) The budget allocation for conference/seminar/workshop should be in place; (iii) Faculty needs in-service training regarding innovations and new disciplines emerging out in plant pathology; (iv) The department has no library while main library has 51 reference books, but it needs more newly published books and regular subscription of international and national research journals; (v) Lack of student's access to internet and HEC digital library/online sources; (vi) Limited intake of students is also a main sustainability issue in plant pathology major; (vii) Shortage of advanced well equipped laboratory for students research work; (viii) No net/glass house for research and training purposes; (ix) Research laboratory lack safety equipment and first aid box.

#### AIC Recommendations

(i) There is acute shortage of faculty i.e. Professor, Associate Professors, Assistant Professors (TTS) and Lectures in the department. Therefore, qualified faculty members should be appointed to strengthen degree program; (ii) Faculty may be encouraged to hunt grants from HEC and other national and international donor agencies; (iii) Department would need support from university in term of capacity building, R&D infrastructure improvement along with student financial and logistic support etc to

make it more attractive program. Department also needs to enhance its engagement with the community/local industry; (iv) Department should strengthen its linkages with relevant national and international institutions and donor agencies; (v) Enhancing IT facilities, access to internet, HEC digital library, adding of new books, subscription of new journals and other reference material for the department and main library; (vi) QEC report should be made available to respective senior most teachers (through Principal) for appreciation as well as necessary counseling of the concerned staff; (vii) Appointment and training of lab. support staff and increase in budget for lab. work/maintenance is needed; (viii) More resources for practical oriented training of students (field visits, field experiments, field surveys); (ix) Development/improvement of recreational as well as indoor/outdoor sports facilities for students/faculty; (x) Students' facilitation/services like increasing financial assistance to needy students on priority basis; (xi) Department should develop Alumni's association in future; (xii) The industrial linkages must be developed and strengthened.

#### 4. Summary of AIC Visit of B.Sc. (Hons.) Soil Science

Particular	Previous Visit	Current Visit
Nature of Visit	Zero Visit	Formal Visit
Program Evaluators	Prof. Dr. Muhammad Abid	Prof. Dr. Muhammad Abid
Date of Visit	October 14, 2019	November 04, 2020
Rating	Not applicable	X <sub>3</sub> with 670 score (67%)

##### Strengths

(i) Availability of infrastructure consisting of the newly constructed academic block, hostels, residence and research farm; (ii) The department is reasonably well qualified and cooperative faculty members with a mixture of young and seniors; (iii) Well-equipped laboratory with basic and necessary equipment available for carrying out soil, plant and water research; (iv) Audio-visual aids and video conference room for meetings and seminars.

##### Weaknesses

(i) There is a lack of enough technical laboratory staff and faculty; (ii) There is no equipment repair and maintenance engineer; (iii) There is no operational budget for research activities.

## AIC Recommendations

(i) Appointing faculty on a permanent basis (BPS/TTS); (ii) An independent recurring budget must be allocated to make the department functional; (iii) Appointment of qualified laboratory staff (Lab. Superintendent, Lab. Technician, and Lab. Assistant); (iv) Faculty may be encouraged to hunt grants from HEC and other national and international donor agencies; (v) The Industrial linkages must be developed and strengthened; (vi) More resources for practical oriented training of students (field visits, field experiments, field surveys); (vii) QEC report should be made available to respective senior most teachers (through Principal) for appreciation as well as necessary counseling of the concerned staff.

## E. The University of Agriculture, Peshawar

### 1. Summary of AIC Visit of B.Sc. (Hons.) Agricultural Extension

Particular	Previous Visit	Current Visit
Nature of Visit	Formal Visit	2 <sup>nd</sup> Round Visit
Program Evaluators	Prof. Dr. Nowshad Khan Prof. Dr. Shafiullah Khan	Prof. Dr. Nowshad Khan
Date of Visit	December 01-02, 2011	November 16-17, 2020
Rating	X <sub>2</sub> with 700 score (70%)	X <sub>1</sub> with 780 score (78%)
Remarks	Rating improved	

## Strengths

(i) Eight faculty members are working in the department comprising of four Professors, two Associate Professors, one Assistant Professor and one Lecturer; (ii) All the faculty members are holding Ph.D. degree including one from foreign with specialization in agricultural extension and related aspects and two of them have completed their postdoc fellowships from abroad; (iii) Faculty is well qualified, competent, enthusiastic and highly motivated, actively involved in teaching, research and publication; (iv) Program mission, objectives and outcomes are well defined, course and teacher evaluation proforma are in place and maintenance of graduating students' alumni and employer surveys are regular features of the program and the department; (v) Adaptation of recent innovations and best practices; (vi) Audio video Recording Studio; (vii) Established FM radio broadcasting station;

(viii) Major focus on participatory technological development approaches; (ix) Peaceful and conducive environment for learning; (x) Focus on study tours and out-reach activities involving students.

## Weaknesses

(i) No permanent Lecturers in the department; (ii) Limited research facilities due to budget constraints; (iii) Lack of modern equipment in the communication lab.; (iv) Less number of classrooms; (v) No local or foreign journal has been subscribed in the Library to cater the need of postgraduate students; (vi) Limited computing and internet facilities especially for undergraduate students; (vii) Less satisfaction of students regarding hostels, sports and medical facilities at the campus.



## AIC Recommendations

(i) Construction of at least two more classrooms in the department with proper teaching aids; (ii) Faculty development/training program should be initiated for young faculty members; (iii) Addition of well-trained administrative/ clerical staff be appointed for dealing official matters and maintaining office record; (iv) Qualified and well-trained laboratory staff (Lab. Technician and Lab. Assistant) be appointed to operate and maintain the equipment; (v) More prescribed/recommended text books (at least two sets) should be purchased, and some local and foreign research journals should be subscribed to improve the standard of the library; (vi) Provision of ICT facilities to the students and access to HEC digital library to the faculty members and students must be ensured; (vii) Sports, accommodation and medical facilities seems less, so improvements are needed in this regard; (viii) Necessary arrangement should be made for guidance and counseling of the students; (ix) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (x) The industrial linkages must be developed and strengthened.

## 2. Summary of AIC Visit of B.Sc. (Hons.) Food Science & Technology

Particular	Previous Visit	Current Visit
Nature of Visit	Formal Visit	Follow-up Visit
Program Evaluators	Prof. Dr. Faqir Muhammad Anjum Dr. Sarwar Dogar	Prof. Dr. Anwaar Ahmad
Date of Visit	December 30-31, 2010	November 16-17, 2020
Rating	Y <sub>2</sub> with 585 score (58.5%)	X <sub>2</sub> with 720 score (72%)
Remarks	Rating improved	

### Strengths

(i) Department has qualified teaching staff with specialization in food additives, food biotechnology, fats and oil technology and dairy science; (ii) There is trend of increasing the number of students each year due to well qualified faculty & lab. staff, punctuality in teaching & practical work, friendly environment and bright scope of FST graduates results in increasing; (iii) The department has adopted the latest curriculum of courses in B.Sc. (Hons.) and M.Sc. (Hons.) degree scheme made by HEC through NCRC; (iv) "Income generation program" has also started in the department by selling their own prepared fruit products such as squashes and various fruits syrups; (v) Department provide free consultancy services to ladies and others who are interested to learn about various fruits & vegetables products such as squashes, ketchup and syrups to generate income; (vi) Teachers performance was evaluated by students through QEC self-assessment program.

### Weaknesses

(i) The department need qualified faculty in the field of food microbiology, food biotechnology, food emulsion, food engineering, food toxicology and food safety. Additionally, the department also needs more equipment to cover various aspects of the field; (ii) The space of the department needs to be extended according to the present needs; (iii) Study room arrangements are required for Ph.D. students; (iv) Research projects submission and industrial collaboration needs improvement; (v) Well qualified Lab. Technicians are needed; (vi) Latest equipment and up gradation of labs. is needed.

### AIC Recommendations

(i) Special consideration should be given to the appointment of at least three senior faculty members at Professor/Associate Professor Level and also two regular Lectures in the department; (ii) Faculty



development / training program should be initiated for new faculty members; (iii) Well trained administrative/clerical staff be appointed for dealing official matters and maintaining office record; (iv) Qualified and well-trained laboratory staff (Lab. Technician and Lab. Assistant) be appointed to operate and maintain the equipment and instruments; (v) Necessary arrangement should be made for guidance and counseling of the students; (vi) Latest lab. equipment is needed; (vii) Departmental library should be established to facilitate students; (viii) Faculty must be encouraged to win projects; (ix) 8<sup>th</sup> semester may be dedicated for Internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (x) The industrial linkages must be developed and strengthened.

### 3. Summary of AIC Visit of B.Sc.(Hons.) Plant Protection

Particular	Previous Visit	Current Visit
Nature of Visit	Formal Visit	Follow-up Visit
Program Evaluators	Dr. Ghulam Jilani Prof. Dr. Muhammad Naeem	Prof. Dr. Muhammad Naeem
Date of Visit	April 11-12, 2011	November 16-17, 2020
Rating	Y <sub>2</sub> with 564 score (56.4%)	X <sub>3</sub> with 678 score (67.8%)
Remarks	Rating improved	

#### Strengths

(i) The entire faculty is highly skilled all six (6) regular faculty members hold Ph.D. and two (2) postdoc. They have expertise in different field of Plant Protection (Host Plant Resistance, Bio-control, IPM, Toxicology, Nematology etc.); (ii) Mostly senior faculty members i.e. four (4) Professors are available in the hierarchy to provide obligatory leadership and mentoring; (iii) Sufficient and approachable land on-farm research is available for faculty and students; (iv) Faculty and students seem satisfied with teaching/learning environment; (v) Sharing facilities for molecular level research are available; (vi) Adequate medical facility is available; (vii) Indoor and outdoor games facilities are sufficient;

#### Weaknesses

(i) The study tours/trips for postgraduate and undergraduate students should be arranged on regular basis to enhance their exposure and vision about agriculture; (ii) Student's alumni are lacking. A well-

developed alumni office is required; (iii) Lack of research grant on regular basis for postgraduate students; (iv) Less number of research papers are being published in national & international impact factor journals; (v) No separate budget is allocated to the department.

### AIC Recommendations

(i) Funds should be arranged for faculty members to regularly participate in conferences, seminar and workshops at national and international level; (ii) Vacant posts should be filled immediately; (iii) The department needs more space for undergraduate programs and laboratories; (iv) Latest editions of the text books should be purchased; (v) There is no allocated departmental budget to meet the routine necessities of the department; (vi) Placement bureau and alumni association has not been yet established; (vii) All Ph.D. faculty members need to be encouraged and motivated to apply and win research grants as previously the faculty members are unable to obtain reasonable project from different funding agencies; (viii) Focus on research projects by faculty members is meager; (ix) Internships (preferably paid) should be arranged during 8<sup>th</sup> semester and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (x) The industrial linkages must be developed and strengthened.



#### 4. Summary of AIC Visit of B.Sc.(Hons.) Agricultural Economics

Particular	Previous Visit	Current Visit
Nature of Visit	Formal Visit	2 <sup>nd</sup> Round Visit
Program Evaluators	Prof. Dr. Abdul Salam Prof. Dr. Sarfraz Mian	Prof. Dr. Abdul Saboor
Date of Visit	December 01-02, 2011	March 25, 2021
Rating	X <sub>2</sub> with 730 score (73%)	X <sub>1</sub> with 766 score (76.6%)
Remarks	Rating improved	

##### Strengths

(i) Social capital of faculty members of this department is commendable which may be helpful in creating synergy for the smooth functioning of learning and research activities; (ii) Remarkable infrastructure with almost all sorts of requisite resources both of physical and technological nature; (iii) Faculty has rich profile of HEC recognized publications and research projects. The initiatives for national and international collaborations are quite encouraging; (iv) An excellent grit and determination exist among the teachers and students for excelling in teaching and research.

##### Weaknesses

(i) The practical orientation of some courses is not as good as it should be as per market standards; (ii) The internship program is not getting full attention in terms of its time span and resources; (iii) Relative to other degree awarding institutions particularly in private sector, there is more information based dissemination of knowledge which may weaken the analytical approach of the budding graduates.

##### AIC Recommendations

(i) After qualifying most of the evaluation criteria with good scores, it is the duty of the university and ultimately the department of agricultural and applied economics to ensure sustainability of good practices being followed both in the domains of teaching and research. A strategic sustainability plan may be developed by involving key experts of the relevant field; (ii) It is highly imperative that the faculty should adopt a teaching philosophy that could create passion for practical learning among the students in such a way that they could solve real life policy problems of the farming community through analytical reasoning. Some special training of teachers may also be conducted for achieving such kinds

of goals; (iii) Some core courses like that of production economics needs to be reviewed and revised keeping the new trends of the labour market. Curriculum of B.Sc. (Hons.) Agricultural Economics needs to be revisited and improved by engaging policy makers and entrepreneurs working agri-businesses; (iv) The marketability of this undergraduate program may also be increased if some student exchange programs are launched to give vast exposure to graduating students. There is dire need to enhance the span of internship program by focusing on policy related issues; (v) It would be important to increase the number of national and international research journals which are hardly available online. The habit of book reading (other than text books) needs to be introduced for enhancing wisdom of students. For that matter department also needs to strengthen its own library; (vi) There is ample need of making further improvement in peer reviewed publications. Since there is rich profile of the faculty and excellent collaboration with some well reputed organizations also exists the department should think of starting its own research journal on Agricultural Economics. Sarhad journal of Agriculture might not fulfill the high demand at local level; (vii) In the coming year it would be highly challenging to invite the attention and seriousness of students who are taking scholarly pursuits superficially. Very well planned efforts are required to bring the budding graduates back on the track of innovative thinking and creation of new knowledge in the broad field of agricultural economics. Serious efforts are required to make graduates competent and meritorious for meetings the challenges of dynamic world of economics; (viii) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (ix) The industrial linkages must be developed and strengthened.

## 5. Summary of AIC Visit of B.Sc. (Hons.) Weed Science

Particular	Previous Visit	Current Visit
Nature of Visit	Formal Visit	2 <sup>nd</sup> Round Visit
Program Evaluators	Prof. Dr. Zahid Atta Cheema Dr. Rashid Ahmad Shad	Prof. Dr. Nazim Hussain
Date of Visit	April 11-12, 2011	March 25, 2021
Rating	X <sub>3</sub> with 679 score (67.9%)	X <sub>2</sub> with 732 score (73.2%)
Remarks	Rating improved	

### Strengths

(i) Weed science department has competent faculty holding Postdoc and Ph.D. degree except one;



(ii) Basic needs like computer and internet facility is available; (iii) Working environments like office and labs. are better; (iv) The department also publish journal named Pakistan journal of weed science under the umbrella of weed science society of Pakistan.

## Weaknesses

(i) Shortage of communication facilities and lack of controlled environment facilities; (ii) Lab. maintenance budget is less than required; (iii) Research area is common and not specified; (iv) Budget for purchase of books is limited; (v) Trained lab. staff is less than required; (vi) Herbarium is not properly organized; (vii) Lack of well-maintained and well-equipped labs.; (viii) Poor faculty/student ratio.

## AIC Recommendations

(i) Budget allocation for development, research, library and labs. activity may be specified and be increased; (ii) Lab. supporting staff must be recruited on the basis of relevant qualification/experience for handling the scientific instruments/equipment safely. A qualified electronic engineer may be appointed at faculty level to look after the working and maintenance of lab. equipment; (iii) Land must be specify for department field experiments; (iv) A field lab. should be established; (v) The latest editions of the books should be purchased, international journals be subscribed and communication facilities be upgraded; (vi) Steps to attract students be taken to balance the faculty/students ratio; (vii) Multidisciplinary courses must be included in the B.Sc. (Hons.) program; (viii) Course contents should be revised according to latest version; (ix) Senior faculty (Professor) level should be hired; (x) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in





final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (xi) The industrial linkages must be developed and strengthened.

## F. Pakistan Forest Institute, Peshawar

### 1. Summary of AIC Visit of BS Forestry

Particular	Previous Visit	Current Visit
Nature of Visit	Formal Visit	2 <sup>nd</sup> Round Visit
Program Evaluators	Prof. Dr. Sarwat N. Mirza Dr. Muhammad Afzal	Prof. Dr. M. Tahir Siddiqui Dr. Aaamir Saleem
Date of Visit	December 16-17, 2013	November 18, 2020
Rating	X <sub>3</sub> with 660 score (66%)	X <sub>2</sub> with 725 score (72.5%)
Remarks	Rating improved	

### Strengths

(i) BS Forestry admission in 1<sup>st</sup> term- annual intake after F.Sc. The degree is spanned over eight semesters; (ii) The department has the services of three regular faculty members including two Ph.D. The teaching staff is well versed and trained in their respective field of studies. In addition, there are 23 technical staff serving in various research divisions/wings of PFI having Master degree in forestry & allied disciplines and are engaged in teaching and training of the students; (iii) Peaceful and conducive environment for learning is available; (iv) Focus on study tours and out-reach activities involving students; (v) PFI has a large infrastructure (233 acres) exclusively established for the promotion and advancement of forestry education and training. Institute has the facilities of spacious auditorium, conference hall, classrooms, teaching labs., natural history museum, library, residential houses, students and trainee hostels, research fields and nurseries, six field stations, dispensary and mosque, guest house, officers and staff club, etc. The institute has classrooms equipped with multimedia projectors and screens, fully equipped research/teaching laboratories, computer laboratories having 18 computers, 72 faculties and admin staff offices, a central library with 30 thousand books such as text and reference books and 10 periodicals and journals; (vi) The institute has fully established divisions of forest education, forestry research, forest products, biological sciences and sericulture. Each division has fully equipped research laboratories including wood anatomy, wood seasoning and preservation, composite wood laboratory, pulp and paper laboratory, forest chemistry laboratory, medicinal plant

laboratory, sericulture, entomology and seed testing laboratory; (vii) The extensive practical training and touring to pristine forest areas across the country is one of the major strength of Pakistan Forest Institute which is unmatched with any other educational institution offering forestry education in the country; (viii) There is fully equipped GIS computer lab. equipped with 18 computers with the capacity of mapping remote sensing, etc.; (ix) Pakistan Forest Institute has a central library where the students and faculty has access to a large number of books and journals. (x) There is ample budgetary provision for the purchase of books and periodicals. (xi) The Forest Institute was regularly publishing a quarterly journal “Pakistan Journal of Forestry” from 1980’s which covers broad area of scientific research related to forestry but now regularity not observed because of certain reasons. The senior faculty and researchers have published a number of research publications, some books/monographs related to their specialization.



## Weaknesses

(i) Pakistan Forest Institute (PFI) is short of required number of regular faculty positions especially senior level faculty like Professor and Associate Professor. After the start of BS forestry degree the institute need its permanent teaching staff; (ii) Though the curriculum of PFI for the degrees of BS forestry & M.Sc. forestry is well designed and entail core courses, practical and field tours but courses have not been revised or updated for the last few years. (iii) The text and reference books needs to be updated with latest editions; (iv) Lack of international exposure and interaction with the forestry professional; (iv) The students and teachers are not benefitted from GIS & Computer laboratories due

to inadequate internet facility. Furthermore the faculty and students cannot efficiently utilize HEC digital library for research and linkages development with other institutions; (v) Seminars, workshops and stakeholder meetings are seldom convened.

## AIC Recommendations

(i) The curriculum of BS degree program should be updated regularly as per guidelines of NCRC by inclusion of new courses/contents/topics to cope with emerging avenues in the field of forestry; (ii) Addition of new and latest edition of recommended text books (environment and climate change), periodicals and journals in the main library; (iii) More interaction be established with forestry research institutions, universities and NGOs involved in forestry education and research across the country. Co-curricular activities including sports should be organized in collaboration with other educational institutions to promote cross cultural and healthy competition among the students; (iv) To improve the quality of education, faculty should be provided with ample opportunities for short and long term trainings in international organizations/institutions; (v) The present faculty strength includes a fairly large number of support staff from research wings of the institute, efforts are needed to rationalize increase regular faculty strength. Hiring of qualified and experienced faculty and promotion/up-gradation of existing faculty would further improve the quality of education in the Forest Institute; (vi) Provision of Scholarship to the needy students; (vii) PFI fulfills the criteria for up-gradation to the status of a full-fledged degree awarding institution (DAI) in forestry education; (viii) A long trail for getting approval of academic decisions hinders the efficiency of the institute; (ix) Heavy fee structure needs to be reconsidered to accommodate talented medium income family students; (x) A full time competent professional needed to be appointed as head. An adhoc management puts the institute in doldrums; (xi) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (xii) The industrial linkages must be developed and strengthened.

## G. GCUF-Sahiwal Campus

### 1. Summary of AIC Visit of B.Sc.(Hons.) Food Science & Technology

Particular	Previous Visit	Current Visit
Nature of Visit	Formal Visit	Follow-up Visit
Program Evaluators	Prof. Dr. Masood Sadiq Butt Dr. Saeed Akhtar Dr. Umair Arshad	Prof. Dr. Tahir Zahoor Dr. Imran Pasha
Date of Visit	March 13, 2018	November 23, 2020
Rating	Y <sub>2</sub> with 585 score (58.5%)	Y <sub>1</sub> with 625 score (62.5%)
Remarks	Rating improved	

#### Strengths

(i) Faculty members are well qualified and having scholarly attitude as four teachers have Ph.D. while others have M.Phil. in the respective fields and students are much satisfied with teaching and resourcefulness of the faculty members; (ii) The faculty involves students in product development thus keeping students well aware about the culinary art.

#### Weaknesses

(i) Lack of senior faculty, one faculty member has been designated as Associate Professor but only in papers which deserves salary enhancement accordingly; (ii) No record of BoS or academic meetings. Even courses assigned to teachers and any change required in courses or curricula related issues are not discussed in any statutory body; (iii) The salaries of faculty are not market based, even some faculty members having Ph.D. qualification are getting Lecturer's pay scale. No increment system prevails; (iv) Number of labs. is less than required and existing labs. are short of needed equipment and chemicals; (v) Lack of processing units in processing hall like fruits & vegetable processing and meat processing etc.; (vi) The functioning and efficiency of QEC is inadequate; (vii) Directorate of Academics, Directorate of financial aid, for effective academic





control and ensuring quality education are missing; (viii) Lack of basic medical facility to the students, lack of girl's common room; (ix) Lack of academia – industry linkages through functional MoUs; (x) Limited opportunities for students and the faculty for study tours and participation in conferences; (xi) Lack of operational funds with HoD for purchase of chemicals and glassware; (xii) Lack of Effective monitoring of Internship program of 8<sup>th</sup> semester students.

## AIC Recommendations

(i) The communication gap between campus management and department head/faculty must be addressed. Need of conducive environment for work efficiency up to satisfaction level of sustainability with respect to the faculty. Furthermore there should be collaboration of teaching staff with professional food societies; (ii) Senior faculty members must be hired and existing faculty which fulfills eligibility criteria may be promoted. The salaries and benefits of existing faculty should be market based; (iii) Establishment of efficient quality enhancement cell (QEC) and director academics, director students affairs and students financial aid office (for stream lining scholarships and other facilities) are essential for well-planned teaching practices; (iv) Presently, infrastructure in labs. is not sufficient for the major subject practicals. The laboratory facilities must be strengthened by the addition of a new lab. along with relevant equipment and availability of chemicals for practicals; (v) The processing hall should be equipped with updated relevant equipment for students orientation, practical work and food product development for marketing; (vi) Signing MoUs is needed with organizations or food industry for practical grooming of students and to promote industrial visits; (vii) Operational budget should be allocated to the department for purchase of chemicals and glassware; (viii) Students access to HEC digital library must be ensured; (ix) Infrastructure including conference room and cafeteria need further improvement and up-gradation. Basic medical facility for staff and students should be ensured. Furthermore multimedia and screen should be provided in the classrooms; (x) Board of Studies meetings related to all academic matters must be conducted periodically (as and when required) and number of admissions should be reduced as per main campus approval/policy, record keeping in the department should be strictly taken care and a representative of the faculty must join the meetings in main campus; (xi) Statutory approvals from GCU main campus may be sought for presenting whenever needed; (xii) Extra-curricular facilities for students activity be ensured at the campus; (xiii) Internships (preferably paid) should be arranged during 8<sup>th</sup> semester and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester.



## H. PMAS Arid Agriculture University, Rawalpindi

### 1. Summary of AIC Visit of B.Sc.(Hons.) Food Science & Technology

Particular	Previous Visit	Current Visit
Nature of Visit	Formal Visit	2 <sup>nd</sup> Round Visit
Program Evaluators	Prof. Dr. Alam Zeb Dr. Sarwar Dogar	Prof. Dr. Tahir Zahoor Prof. (Retd). Dr. Alam Zeb
Date of Visit	November 25-26, 2010	December 14-15, 2020
Rating	X <sub>3</sub> with score (65%)	X <sub>2</sub> with 740 score (74%)
Remarks	Rating improved	

#### Strengths

(i) Management is enthusiastic to develop and maintain conducive environment for learning; (ii) Most of the permanent faculty members are Ph.D. have expertise in their respective domains and keep students well aware about the recent developments in food processing; (iii) The AIC members appreciated efforts for self-development so far.

#### Weaknesses

(i) Quality Enhancement Cell needs to be effective for proper feedback from students; (ii) Lack of faculty, lab. staff and supporting staff; (iii) Laboratories are lacking in some of the hi-tech instruments; (iv) Literature in departmental library need to include more recent books, periodicals and encyclopedia; (v) Most of the classrooms need improved teaching aids and relevant facilities; (vi) Student course review management is weak in maintaining record of previously held meetings of the academic council, BOS and faculty Board documents; (vii) Student-teacher ratio needs improvement by recruiting more faculty in hierarchical order to rationalize workload; (viii) A common room for female students, students counseling office and healthy eatery are missing.

#### AIC Recommendations

(i) Institutional level faculty is low in numbers. More permanent faculty must be recruited to maintain the students-teachers ratio along with lab. staff and supporting staff; (ii) There is dire need to maintain an effective QEC to improve the quality of teaching and research activities by proper feedback from students; (iii) The Board of Studies of any institute is prerequisite to resolve educational and

management issues via meeting and discussion. Board of Studies /Faculty Board should be meeting frequent which will exhibit strong working relation among the faculty members; (iv) Academia-industries links needs more focus to strengthen collaboration. Accordingly, students will be able to get more opportunities for industrial visits and internships to strengthen their practical knowledge and skills. Record of industrial linkages, MoUs etc. need further improvement; (v) The institute should establish a common/prayer room for female students and student counseling office; (vi) The sound system should be installed in classrooms to facilitate efficient communications; (vii) Current laboratory facilities should be upgraded with advanced analytical instruments. Students should be encouraged to perform practicals. Likewise processing hall needs to be furnished with appropriate facilities for practical demonstration and postgraduate research; (viii) There is need to include more recent periodicals and encyclopedia in departmental library. At present no separate budget is allocated for the purchase of books which is necessary to add recent editions of textbooks; (ix) The access of the HEC digital library should be ensured to all students; (x) The scheme of studies and curriculum for various degree programs must be reviewed and improved to include latest developments in each field in collaboration and consultation with all stakeholders; (xi) The lab. staff is not of the required qualification. On job trainings and refresher courses should be managed for staff to keep them abreast with latest techniques; (xii) Sensory evaluation lab. should be established; (xiii) The institute has not fully implemented HEC policy guidelines for blended education; (xiv) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester.



## 2. Summary of AIC Visit of B.Sc.(Hons.) Forestry & Range Management

Particular	Previous Visit	Current Visit
Nature of Visit	Formal Visit	2 <sup>nd</sup> Round Visit
Program Evaluators	Dr. Masood Ahmad Qureshi Dr. Ahmad Hussain	Prof. (Retd). Dr. M. Tahir Siddiqui Prof. Dr. Syed Moazzam Nizami
Date of Visit	November 25-26, 2010	December 14-15, 2020
Rating	X <sub>1</sub> with 750 score (75%)	X <sub>2</sub> with 710 score (71%)
Remarks	Rating declined	

### Strengths

(i) Affordable forestry studies as compared to Pakistan Forest Institute; (ii) Geographical position of PMAS Arid Agriculture University is a cause of attraction for most of students; (iii) Being near to capital can have good linkages with NGOs; (iv) Envisaging changes in courses regular with emerging trends and challenges; (v) First ever university in Pakistan to produce range/ranch and forest managers with special focus in arid and semi-arid areas of the country.

### Weaknesses

(i) Insufficient funds for laboratory research, library/reference books and medical Facility; (ii) The department lacks services of watershed and timber technology experts; (iii) Lack of adequate infrastructure for research and teaching facilities; (iv) No safety measures are in place in laboratory; (v) Insufficient transport facilities for study tours; (vi) Insufficient IT devices multimedia, computers etc in classrooms; (vii) Underdeveloped campus life and facilities.

### AIC Recommendations

(i) The faculty of the department must be brought to minimum standard i.e. one Professor; one Associate Professor; two Assistant Professor and two Lecturers. There is dire need of experienced leadership in the department; (ii) The department vision and mission must be at par with university vision and mission. The department must go with university charter i.e. development of forestry & range resources in the rain fed areas of the Punjab; (iii) There should be allocation of some budget to purchase field based research instruments as well as for maintenance and enhancing lab. equipment; (iv) The need of field/study tours in forestry & range management cannot be overemphasized. Therefore, the department of forestry & range management should have its own transport vehicles

(two) one bus and one coaster that can be used instantly as and when required without involving administrative approval. Overall 10 tents/camps may be provided to the department for overnight stay during study tours; (v) Faculty must develop projects with head for purchasing relevant books to be placed in departmental library; (vi) Subscription of at least two foreign journals of international repute most related to the department needs is recommended; (vii) Need for close collaboration with RRI, NARC, Ghoragali and PFI for research/visits and collaborative research;



(viii) Classrooms may be provided with latest multimedia facility with all the accessories. Short foreign visits for teachers for boosting up research activities may be arranged; (ix) The strength of the class approved for undergraduate program is not at par with the sitting facility. The classroom of suitable size may be provided or the number of intake must be reduced. However the current teacher student ratio in the department 1:45 which is not acceptable; (x) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (xi) The industrial linkages must be developed and strengthened; (xii) There is need of curriculum development as per university vision and mission.

## I. University of Swabi

### 1. Summary of AIC Visit of B.Sc.(Hons.) Agronomy

Particular	Previous Visit	Current Visit
Nature of Visit	Follow-up Visit	2 <sup>nd</sup> Round Visit
Program Evaluators	Prof. Dr. Fayyaz-ul-Hassan	Prof. Dr. Fayyaz-ul-Hassan
Date of Visit	January 27, 2016	December 16, 2020
Rating	X <sub>3</sub> with 650 score (65%)	X <sub>3</sub> with 655 score (65.5%)
Remarks	No improvement	



## Strengths

(i) Qualified and highly motivated faculty having diversified experience; (ii) Existence of section in diversified ecological zone of rain-fed and irrigated agriculture.

## Weaknesses

(i) Lack of capacity of technical supporting staff like Technicians/Lab. Assistant; (ii) Lack of office, lecturing and laboratory space along with lack of co-curriculum activities; (iii) Lack of on campus residential and medical facilities for students and young faculty; (iv) Absence of well-developed and equipped research farm; (v) Lack of exposure of students to other Universities and research institutions of the country; (vi) Lack of financial assistance office for student facilitation.

## AIC Recommendations

(i) Creation for designated and independent department in the name of discipline is desired; (ii) The senior faculty member may be designated as the Chairman/HoD of the newly established department; (iii) Development of farm for practical and research purposes at priority; (iv) Completion of faculty pyramid i.e. appointment of Professors as soon as possible as per recommendation of HEC 1:1:2:2; (v) Establishment of students financial assistance office at university level and focal person nomination at faculty level as per practice at other HEIs; (vi) Provision of residential facilities for staff at campus; (vii) Establishment of first aid/medical facility or dispensary for students and staff; (viii) Provision of a seminar room and committee/conference room for each section; (ix) Provision of recreational as well as indoor/outdoor sports facilities for students; (x) High achiever amongst faculty should be recognized and rewarded; (xi) Allotment of “major” after 4th semester should be more or less equal in all disciplines and as per student choice and merit. Guidance and counseling to students should be provided in this regards by senior faculty; (xii) Provision of scholarship/laptop facilities should be advertised at prominent places for information of students; (xiii) Rules/regulations related to admission till the completion of degree should be available to students either in the form of catalogue or provided at the time of admission; (xiv) Enrolment of extra courses in 7<sup>th</sup> and 8<sup>th</sup> semester facility be provided to students for timely completion of degree; (xv) Field visits should be made part of practical as university does not have proper research farm; (xvi) Infrastructure strengthening and up gradation like library, labs. etc should be focused; (xvii) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (xviii) The industrial linkages must be developed and strengthened.



## 2. Summary of AIC Visit of B.Sc. (Hons.) Entomology

Particular	Previous Visit	Current Visit
Nature of Visit	Follow-up Visit	Follow-up Visit
Program Evaluators	Prof. Dr. Mian Inayatullah Prof. Dr. Muhammad Naeem	Prof. Dr. Humayun Javaid
Date of Visit	January 27, 2016	December 16, 2020
Rating	Y <sub>2</sub> with 550 score (55%)	Y <sub>1</sub> with 620 score (62%)
Remarks	Rating improved	

### Strengths

(i) The farmers field areas are easily approachable to the students which is a very positive point for students of agriculture department; (ii) Four classrooms and three labs. are allocated specifically for Entomology students.

### Weaknesses

(i) Currently there are various areas regarding faculty, lab. equipment and research area which needs further improvements; (ii) There is no senior faculty member i.e. Professor and Associate Professor; (iii) Lack of disciplines as independent departments e.g. Entomology should be separate department; (iv) Contractual staff is not feeling comfort without regularization; (v) Lack of independent supporting staff for the discipline of Entomology.

### AIC Recommendations

(i) A regular Professor must be hired or promoted immediately for the development of the Entomology; (ii) The discipline of Entomology should be immediately upgraded to the level of independent



department of Entomology. The department of agriculture is hardly existing in Pakistan; (iii) Department of Agriculture should immediately be upgraded to the Faculty of Agriculture occupying different department under its canopy; (iv) The contractual faculty members should be regularized on priority; (v) The department needs to be strengthened by recruiting more faculty and hi-tech equipment; (vi) Establishment of Entomology library and increased budget for purchasing latest books; (vii) Lab. and supporting staff need to be separately recruited for entomology; (viii) There is no dedicated internet facility at main campus which needs to be immediately addressed; (ix) 8<sup>th</sup> semester may be dedicated for Internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (x) The Industrial linkages must be developed and strengthened; (xi) Creation for designated and independent department in the name of discipline is desired; (xii) The senior faculty member may be designated as the Chairman/HoD of the newly established department.

### 3. Summary of AIC Visit of B.Sc. (Hons.) Food Science & Technology

Particular	Previous Visit	Current Visit
Nature of Visit	Follow-up Visit	Follow-up Visit
Program Evaluators	Prof. Dr. Alam Zeb	Prof. Dr. Asif Ahmad
Date of Visit	January 27, 2016	December 16, 2020
Rating	Y <sub>1</sub> with 600 score (60%)	Y <sub>1</sub> with 610 score (61%)
Remarks	No improvement	

#### Strengths

(i) FST have good representation of female faculty members showing the concept of equal opportunities based on gender; (ii) Students internship is now part of revised curricula and there are efforts to develop linkages among academia, food industry and research organizations.

#### Weaknesses

(i) The department lacks senior faculty members of the rank of Professor and Associate Professor. Such faculty members should be the part of FST and may be hired on priority basis. At present only two Ph.D. faculty members are available that need to increase as soon as possible; (ii) The FST lacks modern food processing lab. facility, it is need of the time to equip the students with practical product development

knowledge; (iii) Sensory evaluation lab. is still not ready as was recommended in previous report; (iv) There is still need to develop new relevant labs. and purchase of new equipment/glassware for existing lab.; (v) There is still shortage of qualified lab. staff in FST labs.; (vi) Some improvement is required for office documentation for faculty and students official records maintenance; (vii) Existing Board of Studies lacks persons with FST background; (viii) Faculty and students have least access to internet; (ix) Students facing difficulties to get space at on campus residential hostel; (x) Less number of FST books and journals in library; (xi) Lack of disciplines as independent departments e.g. Food Science & Technology should be separate department.



## AIC Recommendations

(i) Induction of faculty members at rank of Professor and Associate Professor is needed at the earliest; (ii) An independent department with independent and relevant BoS; (iii) Purchase of necessary equipment, glassware and required facilities for labs. and development of sensory evaluation facility to ensure students practical; (iv) Proper functioning of food processing lab., with working equipment and trained manpower for product development must be ensured; (v) Safety and security measures in the labs. are missing; (vi) Ensure scholarships for FST students; (vii) Provision of transport facilities and on campus residence facility for FST students is required; (viii) Departmental Budget (FST) for purchase of lab. chemicals and glassware should be increased and FST senior faculty should be empowered for its utilization; (ix) Provision of internet facilities for FST faculty and students must be ensured; (x) Teacher & course evaluation record maintenance with help of QEC must be ensured and communicated to the concerned quarter; (xi) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (xii) The Industrial linkages must be developed and strengthened; (xiii) Creation for designated and independent department in the name of discipline is desired; (xiv) The senior faculty member may be designated as the Chairman/HoD of the newly established department.

#### 4. Summary of AIC Visit of B.Sc.(Hons.) Horticulture

Particular	Previous Visit	Current Visit
Nature of Visit	Follow-up Visit	2 <sup>nd</sup> Round Visit
Program Evaluators	Prof. Dr. Noor-ul-Amin	Prof. Dr. Ishfaq Ahmad Hafiz
Date of Visit	January 27, 2016	December 16, 2020
Rating	Y <sub>2</sub> with 590 score (59%)	X <sub>3</sub> with 655 score (65.5%)
Remarks	Rating improved	

##### Strengths

(i) Faculty is qualified and highly motivated having diversified experience; (ii) Research groups in the department has been developed.

##### Weaknesses

(i) Lack of infrastructure including faculty offices, lecturing and laboratory space; (ii) Lack of capacity of technical supporting staff like Technicians/Lab. Assistant; (iii) Lack of on campus residential and medical facilities for students and young faculty; (iv) Need to establish a equipped research farm; (v) No trained support staff is available with the department.

##### AIC Recommendations

(i) Induction of senior faculty members i.e. Professor and Associate Professor at the earliest as per HEC criteria i.e. 1:1:2:2; (ii) Establishing a designated and independent department in the discipline of Horticulture and the senior faculty member may be designated as the Chairman/HoD of the newly established department; (iii) Development of farm for practical and research purposes on priority basis; (iv) Field visits should be made part of practical as university does not have proper research farm; (v) The industrial linkages must be developed and strengthened; (vi) Provision of residential facilities for staff at campus; (vii) Provision of recreational as well as indoor/ outdoor sports facilities for students; (viii) Establishment of students financial assistance office at university level and focal person nomination at faculty level as per practice at other HEIs; (ix) Establishment of first aid/medical facility for students and faculty member; (x) Provision of scholarship/laptop facilities should be advertised at prominent places for information of students; (xi) Rules/regulations related to admission till the completion of degree should be available to students either in the form of catalogue or provided at the



time of admission; (xii) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester.

## 5. Summary of AIC Visit of B.Sc.(Hons.) Plant Breeding & Genetics

Particular	Previous Visit	Current Visit
Nature of Visit	Formal Visit	2 <sup>nd</sup> Round Visit
Program Evaluators	Prof. Dr. Hidayat-ur-Rehman Prof. Dr. Kausar Nawaz Shah	Prof. Dr. Hidayat-ur-Rehman
Date of Visit	April 04, 2014	December 16, 2020
Rating	X <sub>3</sub> with score (65%)	X <sub>3</sub> with 680 score (68%)
Remarks	No improvement	

### Strengths

(i) Qualified faculty with vision and will to work for students training and research; (ii) The teachers have good advanced education as all seven faculty members have Ph.D. degree and some with postdoc trainings from different universities of Pakistan and overseas; (iii) The faculty members have completed a couple of research projects from local funding with an amount of Rs.0.4 million and another of Rs.0.5 million is in progress through national and international competition from HEC etc. which is appreciable; (iv) Faculty members have published more than 40 research papers in HEC recognized journals and impact factor journals during the last two years.

### Weaknesses

(i) Teaching aids like multimedia and computers are not regularly used in teaching as the computer and internet facilities are non-existent; (ii) Laboratory space and a reasonable number of equipment is available but the equipment needs to be made operational to ensure proper hands on experience of students; (iii) Textbooks are only available at main library and the online book consultancy in main library is also limited; (iv) All labs. in the recently handed over buildings are shared by the various specializations of the departments which needs to be allotted to each specialization as lab. equipment and utilization could vary for various specialties; (v) Lack of disciplines as independent departments e.g. Plant Breeding & Genetics should be separate department.



## AIC Recommendations

(i) The departmental budget must be at the discretion of the Chairman to meet the daily needs; (ii) The semester system must be followed in letter and spirit i.e. the evaluation must be through regular midterm and terminal examinations as well as the assignments and quizzes at time; (iii) Students progress must be monitored including the maintenance of their registers, roll calls, the lab. and field work; (iv) The department should have its own departmental library and new edition of the text books must be purchased and maintained at the departmental library; (v) The digital library facilities with online linkages must be provided at the department level for free access to students; (vi) The laboratory facilities must be made up-to-date with addition of new equipment; (vii) The students field tours must be mandatory for their field exposure and firsthand knowledge of the crops and problems especially for the undergraduates; (viii) The mission statement lacks reflection on strong emphasis on capacity building in terms of human resource, space and time; academic and applied research by postgraduate students and faculty; information and resource sharing through strong linkages with sister organizations, government and private institutions as well as stakeholders; (ix) Workload of faculty members need to be distributed according to the HEC defined criteria. The faculty fringe benefits should be provided; (x) Strong system of students' scholarships from the university sources and from the donating agencies / zakat, bait-ul-mal and interest free loans need to be increased. There should be a separate sitting room with washrooms for the female students in the department. Sports facilities must be extended to the students living on the campus for healthy development; (xi) The department should take the advantage of the facility extended by HEC to hold seminars, conferences, placement bureau and alumni association; (xii) 8<sup>th</sup> semester may be dedicated for Internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (xiii) The industrial linkages must be developed and strengthened; (xiv) Creation for designated and independent department in the name of discipline is desired; (xv) The senior faculty member may be designated as the Chairman/HoD of the newly established department; (xvi) Establishment of better liaison and collaboration with research institutes and progressive farmers for student's internship and on job training as well as joint research; (xvii) More funds for the departmental research activities by empowering the Chairman/HoD to utilize the funds instead of central control; (xviii) Sufficient use of teaching aids like the use of multimedia in the class rooms.

## J. University of Haripur

### 1. Summary of AIC Visit of B.Sc. (Hons.) Soil Sciences

Particular	Previous Visit	Current Visit
Nature of Visit	Follow-up Visit	2 <sup>nd</sup> Round Visit
Program Evaluators	Prof. Dr. Safdar Ali	Dr. Amjad Hussain
Date of Visit	November 12, 2015	December 17, 2020
Rating	X <sub>2</sub> with 740 score (74%)	X <sub>1</sub> with 757 score (75.7%)
Remarks	Rating improved	

#### Strengths

(i) Enough financial support is forthcoming being a new institution and the administration is supportive to resolve day to day matters; (ii) Young highly qualified faculty; (iii) Good collection of the text and reference books in soil and environmental sciences; (iv) High-tech lab. equipment (under process).



#### Weaknesses

(i) Green house and growth chamber facilities are missing; (ii) Limited opportunities for scholarships and financial aids; (iii) Limited industrial linkages.

## AIC Recommendations

(i) The department was established few years earlier and need financial grants for strengthening; (ii) There is need of green house and field research area; (iii) Need more opportunities for scholarships and financial aids; (iv) Provision of research grant on the basis of postgraduate students; (v) 8<sup>th</sup> semester may be dedicated for Internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (vi) The industrial linkages must be developed and strengthened.

## K. MNS University of Agriculture, Multan

### 1. Summary of AIC Visit of BBA Agribusiness

Particular	Previous Visit	Current Visit
Nature of Visit	Zero Visit	Formal Visit
Program Evaluators	Prof. Dr. Khalid Mushtaq	Prof. Dr. Khalid Mushtaq
Date of Visit	October 16, 2019	February 8-9, 2021
Rating	Not Applicable	X <sub>1</sub> with 750 score (75%)

### Strengths

(i) Strong linkages with various stakeholders like farmers, exporters, industries, public and private organizations; (ii) Updated curriculum having diversity of courses related to agribusiness; (iii) Frequent workshops, seminars and visit to industries; (iv) A mandatory internship program.

### Weaknesses

(i) Lack of supporting staff; (ii) Insufficient text and reference books in library for BBA-Agribusiness program.

## AIC Recommendations

(i) Hiring of highly qualified faculty having specialization in Agribusiness, Finance & Accounting; (ii) Experimental plots should be allotted to students where they can grow short duration vegetables, this can add to their skills from sowing till final marketing of crops; (iii) 8<sup>th</sup> semester may be dedicated for Internships (preferably paid) and if some courses are being taught in final semester those courses may

be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (iv) The industrial linkages must be developed and strengthened.

## 2. Summary of AIC Visit of B.Sc. (Hons.) Agricultural Economics

Particular	Previous Visit	Current Visit
Nature of Visit	Zero Visit	Formal Visit
Program Evaluators	Prof. Dr. Sofia Anwar	Prof. Dr. Abdul Saboor
Date of Visit	October 16, 2019	February 8-9, 2021
Rating	Not Applicable	X <sub>2</sub> with 740 score (74%)

### Strengths

(i) Leadership is highly commendable for its proactive and holistic approach towards excellence of teaching, learning and research; (ii) Remarkable infrastructure having state of the art technology adds great value to scholarly environment; (iii) Excellent human resource with advanced degrees, foreign exposure and ample experience both in teaching and research strengthen the hope for the best; (iv) University may grow in a rapid momentum with its significant external linkages and collaborative initiatives with agribusiness and farming communities.





## Weaknesses

(i) Cramming based learning of students in some courses is in practice. There is slight mismatch between what is being taught and what is actually needed in the market; (ii) Weak practical and public policy connections; (iii) Some faculty is overburdened for having multifarious assignments. They need special training for working under multi-tasking environment.

## AIC Recommendations

(i) The faculty should be trained for providing interactive learning environment in the classrooms by giving importance to every learner and by reaping his or her potential keeping every one's uniqueness in view. Practical orientation in some subjects may further be improved through case studies involving business community; (ii) The faculty needs to adopt a teaching philosophy that could create passion for learning among the students in such a way that they could solve real life problems through reasoning and wisdom. A special training of faculty is required for achieving this prescribed goal; (iii) Curriculum needs to be revisited and improved by engaging policy makers and entrepreneurs from the services sector; (iv) The quality and market strength of degree programs may be improved by initiating joint degree programs with other agricultural universities. For this purpose one semester mutual exchange B.Sc. (Hons.) Agricultural Economics students would be workable; (v) There should be a well-established and well equipped library containing world class journals and standard text books. This should be operated by professionally trained staff. The environment of library should be conducive both for the teacher and the taught; (vi) A weekly seminar series may be started in which some renowned agri. economists, development practitioners are invited for understanding real time problems of the agrarian economy of Pakistan. In this way some research ideas may also be taken up in such kinds of innovative adventures which could further translate into policy messages; (vii) More workable strategies need to be developed for improving the intellectual trust between students and teachers and between faculty and administration; (viii) The direction of research may be diverted to policy need of state organs. This is only possible if real time problems of farming community are identified and thus researched accordingly; (ix) 8<sup>th</sup> semester may be dedicated for Internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (x) The industrial linkages must be developed and strengthened.



### 3. Summary of AIC Visit of B.Sc. (Hons.) Biotechnology

Particular	Previous Visit	Current Visit
Nature of Visit	Zero Visit	Formal Visit
Program Evaluators	Dr. Muhammad Babar	Dr. Waqas Malik
Date of Visit	October 16, 2019	February 8-9, 2021
Rating	Not Applicable	X <sub>3</sub> with 682 score (68.2%)

#### Strengths

(i) Highly qualified five Ph.D. and one M.Sc. (Hons.) faculty rendering their best services for the betterment of department and publishing their work in national and international journals; (ii) Purposefully built academic block meeting the all needs of students and faculty for academics; (iii) Location of university campus among the galaxy of different agricultural institutes could promote applied nature of research activities; (iv) Availability of six postgraduate state of the art labs. i.e. transformation/tissue culture Lab., cloning lab., molecular analytical lab., DNA analysis lab, quarantine/cotton biotechnology lab. and quarantine room containment facilities at the university premises; (v) A substantial amount of funding has been won by the faculty from various funding agencies.

#### Weaknesses

(i) Non availability of senior faculty members belonging to different field of expertise for the program of biotechnology; (ii) Non availability of under-graduate labs. for hands on training of students; (iii) Shortage of dedicated budget for maintenance of laboratories and other contingencies; (iv) No separate departmental library and seminar room exclusively dedicated for biotechnology program; (v) Non-availability of sufficient number of computers for students and staff.

#### AIC Recommendations

(i) Two undergraduate labs. for the students of biotechnology are imperative for hands on training of the students. So it is suggested said lab. facility may please be established for biotechnology program; (ii) The biotechnology program is working under the administrative control of the director institute of PBG, it is suggested that the said institute should be further divided into three different divisions i.e. Plant Breeding, Seed Science and Biotechnology. As biotechnology is not confined to agricultural

biotechnology, it can further be sub-divided into different sections like Plant Biotechnology, Environmental Biotechnology, Nano-Biotechnology and Industrial Biotechnology etc. Further appointment of senior faculty member reporting to director could improve the academics of biotechnology program; (iii) Capacity building programs for teaching staff must be initiated to equip the faculty with modern research oriented teaching gadgets; (iv) Funds for graduate and postgraduate studies should be increased to a reasonable extent to conduct impacted research and academic matters; (v) More research funding exclusively for biotechnology program should be hunted by the faculty from national and international funding agencies; (vi) Facility of e-library and computer lab. at departmental level should be provided to the students of the department for easily approaching online journals, books and research paper etc.; (vii) Career counseling center or placement bureau should be established for the students to provide job opportunities after completion of their degrees; (viii) On campus medical facilities having resident male and female medical officers should be established for students and faculty members; (ix) A reward based system must be initiated for researchers to promote more research activities.

#### 4. Summary of AIC Visit of B.Sc. (Hons.) Plant Pathology

Particular	Previous Visit	Current Visit
Nature of Visit	Zero Visit	Formal Visit
Program Evaluators	Prof. Dr. Nazir Javaid	Prof. Dr. Rashida Atiq
Date of Visit	October 16, 2019	February 8-9, 2021
Rating	Not Applicable	X <sub>3</sub> with 682 score (68.2%)

##### Strengths

(i) Sufficient essential infrastructure including classrooms, laboratories, study resources, faculty offices and experimental field; (ii) The faculty members are young and qualified; (iii) Conducive working environment.

##### Weaknesses

(i) Lack of funds for laboratory equipment, chemicals, supplies, operational and day-to-day expenditure; (ii) The department does not have single Associate Professor; (iii) Lack of qualified faculty members particularly in areas of Phyto-Bacteriology and Mycology; (iv) Lack of basic and essential

equipment used in Plant Pathology, inadequate laboratory supply such as chemicals, reagents and diagnostics to fulfill the requirement of quality teaching and research activities for the degree program; (v) Lack of teaching equipment for classroom teaching.



## AIC Recommendations

(i) The department is short of qualified faculty there is urgent need to appoint at least one Associate Professor. It is further needed to appoint one Assistant Professor in area of Phyto-Bacteriology and one Assistant Professor in Mycology with relevant educational background to cater the requirement of the major areas of Plant Pathology; (ii) Needs to appoint technically qualified supporting staff. Each laboratory may have at least one trained laboratory assistant and one laboratory attendant; (iii) Needs financial resources for laboratory equipment, supplies, chemicals and reagents; (iv) Financial assistance could improve the quality of internship programs at B.Sc. (Hons.) degree program; (v) The department library could be enriched with induction of books, local and international journals and literature on continuous basis by allocation of additional funds for the future needs of the students; (vi) Safety arrangements and security plans are not in place. Emergency exits must be arranged. The laboratories may also be equipped with first aid kits/facilities; (vii) More text books and research journals should be purchased to improve the standard of the library and need of the students; (viii) Faculty development and training program for new faculty members should be initiated; (xi) To broaden the view of the students and teachers more linkages could be developed with institutions of higher learning both at national and international levels; (x) Participation of faculty members in conferences, seminars and workshops may be encouraged to improve exposure and interaction with peer groups worldwide; (xi) Necessary arrangements should initiate to appoint male and female medical officers at the campus to take care day-to-day health issues of the students; (xii) Coach should

be appointed to facilitate the students for different games; (xiii) Need to have auditorium, gym and play grounds for students and faculty as well; (xiv) A girls common room facility with attached bath is needed; (xv) The industrial linkages must be developed and strengthened.

## L. The Islamia University of Bahawalpur

### 1. Summary of AIC Visit of B.Sc. (Hons.) Agronomy

Particular	Previous Visit	Current Visit
Nature of Visit	Follow-up Visit	Follow-up Visit
Program Evaluators	Prof. Dr. M. Bismillah Khan	Prof. Dr. Nazim Hussain
Date of Visit	May 24, 2016	February 10, 2021
Rating	Y <sub>1</sub> with 600 score (60%)	X <sub>2</sub> with 730 score (73%)
Remarks	Rating improved	

### Strengths

(i) Availability of basic required infrastructure consisting of newly constructed academic block, hostels residences and research farm; (ii) The department has well qualified and cooperative young faculty members all are Ph.D. except one; (iii) Well-equipped laboratory with basic and necessary equipment's available for carrying out soil, plant and water analysis and other research activities; (iv) Audio-visual aids and room for meetings is available.





## Weaknesses

(i) Deficiency of senior faculty Professor in the department; (ii) There is a shortage of technical laboratory staff; (iii) There is no equipment repair and maintenance engineer; (iv) There is insufficient operational/departmental budget for research activities; (v) There are limited facilities for outreach activities.

## AIC Recommendations

(i) Appointment of senior Professor under TTS/BPS terms and conditions; (ii) Appointment of permanent and qualified supporting staff be enhanced as HEC criteria; (iii) Professional linkages/coordination with other institution may be established; (iv) Labs./greenhouse are available but may fully be equipped and field experimental machinery/tools may be arranged to facilitate wide range of research work for students and faculty; (v) A wide range of latest edition of text books, computers with internet and journals should be within the range of students; (vi) Agronomy section should be raised to the level of full-fledged teaching department with sufficient autonomy in finances, administration and academic matters; (vii) Faculty may be financially supported and encouraged to participate in seminars/conferences; (viii) Quality Enhancement Cell should properly be functional; (ix) The department should arrange internships (preferably paid) during 8<sup>th</sup> semester and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semesters; (x) The industrial linkages must be developed and strengthened for mutual benefits.

## 2. Summary of AIC Visit of B.Sc. (Hons.) Entomology

Particular	Previous Visit	Current Visit
Nature of Visit	Follow-up Visit	Follow-up Visit
Program Evaluators	Prof. (Retd). Dr. Muhammad Aslam	Dr. Muhammad Arshad
Date of Visit	May 24, 2016	February 10, 2021
Rating	Y <sub>1</sub> with 620 score (62%)	X <sub>3</sub> with 668 score (66.8%)
Remarks	Rating improved	

## Strengths

(i) Department has a good combination of senior, qualified and experienced faculty members; (ii) Opportunities for multidisciplinary research; (iii) There is separate department with research farm

area and field class room; (vi) Faculty is rationally involved in the research activities and publishing their work in well reputed national and international journals.

## Weaknesses

(i) Space and budget is limited for the development of new research laboratories and separate faculty offices; (ii) Still insufficient number of journals and books; (iii) Laboratory space is insufficient for the postgraduate degree program; (iv) The permanent and trained lab. staff is not available in the department; (v) There is no proper faculty training program; (vi) There is no linkage with the industry and other research institutes in public and private sector; (vii) There is no proper departmental library and limited number of computers for the students; (viii) There is no insect rearing room, insectary and insect collection museum in the department; (ix) There is limited practical and field research work; (x) 8<sup>th</sup> semester internship program is not diversified.

## AIC Recommendations

(i) A proper faculty training program should be initiated to equip the teachers with modern techniques for the quality teaching; (ii) Separate offices should be provided to each faculty member for full concentration on their teaching and research work; (iii) New research and postgraduate laboratories should be provided; (iv) Research budget should be increased to purchase the latest and new equipment for the postgraduate laboratories; (v) Faculty members should be encouraged to create the resources in the department in the form of research grants from different national and international funding agencies; (vi) Departmental library should be fully equipped with computers and curriculum related new books; (vii) The laboratory staff should be trained for practical demonstration of insects to the students; (viii) The industrial linkages must be developed and strengthened for the addition of departmental resources; (ix) Insect rearing rooms, an insectary and insect museum need to be established for postgraduate research; (x) Practical research work should be focused to produce quality student research work; (xi) 8<sup>th</sup> semester students should be engaged in their internship program (preferably paid) in different public and private sectors for their exposure to research and better job opportunities. If some courses are being taught in 8<sup>th</sup> semester should be shifted to 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> semesters; (xii) Departmental administration issues must be addressed by Senior faculty/Dean for better performance.

### 3. Summary of AIC Visit of B.Sc. (Hons.) Food Science & Technology

Particular	Previous Visit	Current Visit
Nature of Visit	Follow-up Visit	Follow-up Visit
Program Evaluators	Dr. Saeed Akhtar	Prof. Dr. Umar Farooq
Date of Visit	May 24, 2016	February 10, 2021
Rating	Y <sub>2</sub> with 585 score (58.5%)	X <sub>3</sub> with 652 score (65.2%)
Remarks	Rating improved	

#### Strengths

(i) Department of FST has faculty of 09 members out of which 05 hold Ph.D. degree; (ii) Majority of the faculty members have industrial experience in national and multinational food processing organizations.

#### Weaknesses

(i) Lack of offices for the faculty; (ii) Lack of trained laboratory staff; (iii) Poor interaction with private sector; (iv) Faculty stability is not encouraging; (v) Lack of faculty development programs or activities; (vi) Limited access to IT facilities and reference material; (vii) Shortage of recommended text books and reference books; (viii) Insufficient funds to carry out practical work and other research activities; (ix) Lack of initiative to organize relevant seminars, symposia and conferences; (x) Limited opportunities for study tours and industrial trips.

#### AIC Recommendations

(i) The industrial linkages must be developed and strengthened; (ii) Faculty development programs should be initiated especially for newly inducted faculty; (iii) Community services may be increased and seminars, symposia and conferences should be organized for dissemination of research outcomes; (iv) Curriculum should be revised; (v) 8<sup>th</sup> semester students should be engaged in internship program (preferably paid) in different public and private sectors for their exposure to research and better job opportunities. If some courses are being taught in 8<sup>th</sup> semester should be shifted to 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> semesters; (vi) Frequent study tours should be arranged for the students; (vii) Faculty should be encouraged to arrange national & international seminars & conferences; (viii) Number of scholarships should be increased for the students.

#### 4. Summary of AIC Visit of B.Sc.(Hons.) Plant Breeding & Genetics

Particular	Previous Visit	Current Visit
Nature of Visit	Formal Visit	2 <sup>nd</sup> Round Visit
Program Evaluators	Dr. Abdul Qayyum	Dr. Waqas Malik
Date of Visit	May 24, 2016	February 10, 2021
Rating	X <sub>3</sub> with 655 score (65.5%)	X <sub>2</sub> with 718 score (71.8%)
Remarks	Rating improved	

##### Strengths

(i) Seven faculty members including one Professor, one Associate Professor and five Assistant Professors are rendering their best services for the dissemination of knowledge; (ii) Very well-established 55 acres experimental farm with all supporting staff and field driven equipment is providing the equal opportunities to each and every student of the department; (iii) Two very established labs. equipped with latest equipment required for molecular breeding of crop plants.

##### Weaknesses

(i) Shortage of annual budget for research and maintenance of laboratories; (ii) Very less dedicated space for academic activities of the department as department has only two dedicated classrooms not equipped with modern gadgets; (iii) Lack of modern containment facility for off season breeding program of different crops; (iv) Lack of well-established departmental library, girls common room and faculty offices; (v) Un-availability of technically trained lab. staff for student support in daily experimentation; (vi) Un-availability of undergraduate labs. for hands-on-training of enrolled students.





## AIC Recommendations

(i) Paid or partly paid internship program of one semester duration may please be initiated at undergraduate level; (ii) New up to date scheme of studies should be adopted by the department after approval from the concerned bodies of the university; (iii) Necessary arrangement may please be made to provide the equal opportunities to the students for learning the breeding techniques of many other crops in addition to cotton; (iv) Two undergraduate labs. should be established on the priority basis for the hands on training of enrolled students; (v) Independent office for faculty members are imperative to provide conducive working environment. Therefore independent offices may please be provided to each faculty member; (vi) It is highly recommended that the administrative arrangement may please be made for the long awaited promotions of faculty members to the address the sense of depravedness; (vii) Capacity building programs for teaching staff must be initiated to equip the faculty with modern teaching gadgets; (viii) Funds for graduate and postgraduate studies should be increased to a reasonable extent to conduct impacted research; (ix) More research funding exclusively for the department should be hunted by the faculty from national and international funding agencies; (x) Facility of E-library and computer lab. at departmental level should be provided to the students of the department for easily approaching online journals, books and research paper etc.; (xi) Placement bureau should be established for the students to provide job opportunities after completion of their degrees; (xii) New book related to offer courses must be included in the library stock; (xiii) A reward based system must be initiated for the faculty members and researchers to promote the research activities; (xiv) Industrial Linkages must be strengthened.

## M. University of Karachi

### 1. Summary of AIC Visit of B.Sc. (Hons.) Agribusiness Management

Particular	Previous Visit	Current Visit
Nature of Visit	Follow-up Visit	Follow-up Visit
Program Evaluators	Dr. Ali Muhammad Khushk	Dr. Mubashir Mehdi
Date of Visit	November 25, 2016	February 22, 2021
Rating	Y <sub>3</sub> with 542 score (54.2%)	Y <sub>2</sub> with 575 score (57.5%)
Remarks	Rating improved	

## Strengths

(i) Availability of university space and digital library with access to international books, journals and magazines; (ii) Agribusiness is closely aligned with agriculture department therefore has good opportunity to acquire teaching resources.

## Weaknesses

(i) Shortage of full-time regular faculty having Ph.D. degree as well as qualified senior faculty in Agribusiness Management and related disciplines; (ii) Lack of learning resources including latest text books, research journals, and magazines in the area of agribusiness; (iii) Little involvement of faculty in research findings and financial constraints particularly for research and development activities; (iv) Students could not clearly define their discipline and scope; (v) Inadequate faculty development program for the progression of young teacher.

## AIC Recommendations

(i) Department of Agribusiness can be flourished if they could develop collaboration with the business department of university of Karachi as there is acute shortage of faculty members in the related discipline like specialization in economics, marketing, supply chain management and Finance & Accounting; (ii) Immediate attention is required to induct Ph.D. faculty in the discipline of agribusiness; (iii) Faculty members and students must be encouraged to carry out research on various aspects of agribusiness management particular the research area should be industry oriented; (iv) Provision of research grants by the university as well as the faculty should encourage to submit projects to national and international funding organizations; (v) Collaboration with other leading agribusiness school within and outside the country can further develop the discipline; (vi) Provide opportunities for young faculty members for short-term and long-term training abroad with major discipline of Agribusiness Management; (vii) Hands on training of students through organize seminars, student competitions and workshops on current issues of Agribusiness Management are highly desired; (viii) 8<sup>th</sup> semester may be dedicated for Internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (ix) The industrial linkages must be developed and strengthened.

## 2. Summary of AIC Visit of B.Sc. (Hons.) Food Science & Technology

Particular	Previous Visit	Current Visit
Nature of Visit	Formal Visit	2 <sup>nd</sup> Round Visit
Program Evaluators	Prof. Dr. Saghir A. Sheikh Dr. Saeed Akhtar	Prof. (Retd). Dr. Saghir A. Sheikh
Date of Visit	January 21-22, 2013	February 22, 2021
Rating	X <sub>2</sub> with 729 score (72.9%)	X <sub>1</sub> with 780 score (78%)
Remarks	Rating improved	

### Strengths

(i) The department has 10 faculty members all of them are Ph.D. degree holders and two of them have postdoc exposure. The faculty consists of experts in various important. There are also part time faculty members from research organizations and food industries who are involved in teaching regularly;

(ii) The department exists in newly constructed building of the department with sufficient space for offices, labs. and classrooms. The new building of the department has ten major laboratories equipped with all basic facilities. Department also have digital and seminar library and girls common room facility;

(iii) All classrooms are fully air conditioned and equipped with smart TV and multimedia facility;

(iv) Faculty have a good number of publications (around 400 publications and 3000 citation) in HEC approved national and international reputed journals;

(v) The authorities of the university have recently allocated one-acre land for technology research park for establishing linkage with industry;

(vi) Internship is integral part of degree program. All students experienced with paid internship in industry.



## Weaknesses

(i) Insufficient operational budget hinders the research and academic activities; (ii) The department has a seminar library with about 1200 books but it needs more updated books and regular subscription of international research journals; (iii) One pilot plant of extraction and drying but unavailability of other food processing units (pilot plant units) such as canning unit, dairy unit, oil refining unit, beverage units for carbonated and non-carbonated beverages; (iv) Non availability of cold store units also hinders the research activities.

## AIC Recommendations

(i) Timely promotions of faculty must be ensured. This is strange that in last year, three Professors have been retired but no one has been elevated. In current situation, posts of Professor and Lecturers are vacant; (ii) Sufficient budget should be provided to the department; (iii) Faculty may be encouraged to hunt for grants from national and international funding/donor agencies; (iv) 8<sup>th</sup> semester may be dedicated for Internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (v) The industrial linkages must be developed and strengthened.

## 3. Summary of AIC Visit of B.Sc. (Hons.) Plant Protection

Particular	Previous Visit	Current Visit
Nature of Visit	Follow-up Visit	Follow-up Visit
Program Evaluators	Prof. Dr. Ghulam Jilani	Prof. Dr. Jan Muhammad Mari
Date of Visit	November 25, 2016	February 22, 2021
Rating	Y <sub>2</sub> with 570 score (57%)	X <sub>3</sub> with 690 score (69%)
Remarks	Rating improved	

## Strengths

(i) Department has a good combination of qualified well experience as well as young motivational faculty; All (05) faculty members have Ph.D., degree including one with Postdoc; (ii) The faculty consists of experts in various important disciplines including, plant pathology, agricultural entomology, pest management and biological control, plant protection and agricultural biotechnology. The faculty has good teaching and organizational skills with prioritized research focus; (iii) Department has good



linkages and liaison with other sister organizations/institutions at national and international level; (iv) Department follows HEC approved curricula. (v) The department has seven research laboratories and are well equipped and consists of all equipment required for research.

## Weaknesses

(i) Shortage of operational budget provided to the department by university for research purposes is a major constraint in carrying out research activities and practical work; (ii) Faculty needs in-service training regarding innovations and new disciplines emerging out in plant protection; (iii) Limited access to internet and HEC digital library/online sources; (iv) Up gradation of glass house is needed; (v) Limited access to research journals and magazines; (vi) More industrial linkages are being required; (vii) Alumni association at departmental level is functional but needs to be strengthened.

## AIC Recommendations

(i) There is shortage of Professors and Lectures in the department; (ii) Qualified faculty members should be appointment to strengthen degree programs; (iii) Faculty may be encouraged to hunt grants from HEC and other national and international donor agencies; (iv) Department would need support from university in term of capacity building R&D; (v) infrastructure improvement along with student financial and logistic support etc. to make it; (vii) more attractive program. Department also needs to enhance its engagement with the community/local industry; (viii) Department should strengthen its linkages with relevant International Institutions and donor agencies; (ix) The capacity of young faculty members may be enhanced through short term and long term training abroad; (x) ORIC/IT to support capacity building in application of various software (referencing software like endnote, mendeley etc., statistical software etc.) to both faculty and postgraduate students; (xi) QEC report should be made available to respective chairperson for appreciation as well as necessary counseling of the concerned staff; (xii) Training of lab. support staff and increased budget for lab. work/maintenance; (xiii) More resources for practical oriented training of students (field visits, field experiments and field surveys); (xiv) Development/improvement of recreational as well as indoor/outdoor sports facilities for students/faculty; (xv) Students facilitation/services like increasing financial assistance to needy students on priority basis; (xvi) Department should develop functional alumni's association in true spirit; (xvii) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (xviii) The industrial linkages must be developed and strengthened.

## N. Bacha Khan University Charsadda

### 1. Summary of AIC Visit of B.Sc.(Hons.) Agronomy

Particular	Previous Visit	Current Visit
Nature of Visit	Follow-up Visit	Follow-up Visit
Program Evaluators	Prof. Dr. Shad Khan Khalil	Prof. Dr. Muhammad Akmal
Date of Visit	November 18, 2015	March 09, 2021
Rating	Y <sub>2</sub> with 585 score (58.5%)	Y <sub>2</sub> with 589 score (58.9%)
Remarks	No improvement	

#### Strengths

(i) Land availability and qualified staff for the subject Agronomy; (ii) Students perception about faculty is also good generally cooperative, teaching satisfied and classes held on regular basis.

#### Weaknesses

(i) Shortage of senior faculty members; (ii) Lab. availability and poorly managing practical for the offered subjects; (iii) Lack of faculty to design question paper for fair judgment; (iv) Teachers need to be trained for lecture preparation, design questions for examination, quizzes and assignment for students; (v) Skills needed to be set for proper experiment designing, data analysis and interpretations.

#### AIC Recommendations

(i) Completion of faculty pyramid as per HEC recommendation with focus on relevant degree in the subject; (ii) Creation for designated and independent department in the name of discipline is desired; (iii) The senior faculty member may be designated as the Chairman/HoD of the newly established department; (iv) Basic training of faculty on paper setting, exams, assignments and guidance of students required to be strengthened; (v) Practical of professional degree program is core component, which needs to be further strengthened to achieve the course objective; (vi) Self-respect and working relationship within faculty is essential to be taken in consideration for academic progress in future; (vii) Experienced profession should be part of the BoS for further improvement of the faculty addressing national and regional issues; (viii) Strengthening of IT facilities, power supply, access to HEC digital library, text-books & reference literature, strengthen of the QEC activities, expansion of classrooms, seminar room and committee room is needed to be taken in consideration for future;

(ix) Provision of recreational facilities for students with proper counseling during degree program is required; (x) In the newly growing BKU, Charsadda, B.Sc. (Hons.) degree program of Agronomy is few years old, faculty need intensive work to develop and to expand; (xi) Provision of scholarship facilities on merit with proper circulation on prominent places for students will improve justice to the needy; (xii) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (xiii) The industrial linkages must be developed and strengthened.

## 2. Summary of AIC Visit of B.Sc. (Hons.) Entomology

Particular	Previous Visit	Current Visit
Nature of Visit	Follow-up Visit	Follow-up Visit
Program Evaluators	Prof. Dr. Farman Ullah	Prof. (Retd). Dr. Farman Ullah
Date of Visit	November 18, 2015	March 09, 2021
Rating	Y <sub>2</sub> with 560 score (56%)	Y <sub>2</sub> with 592 score (59.2%)
Remarks	No improvement	

### Strengths

(i) Both the students and faculty members are motivated and have a zeal to work and make the university sustainable; (ii) Agriculture is the predominant business in the surrounding area and it will be a great help to make some good production and protection models for the growers; (iii) The name "Bacha Khan" may be of great assistance to the administration in cashing it, as the Great Bacha Khan is well-known in Charsadda and the surrounding area.

### Weaknesses

(i) Currently there are few classrooms, labs, equipment, chemicals but not at sufficient level. The demand for research stations, research fields and research facilities must be met to the greatest extent possible; (ii) The number of qualified faculty members is not enough to run the degree program in Entomology successfully. To keep the program running smoothly the university needs to hire more faculty.



### AIC Recommendations

(i) Creation for designated and independent department in the name of discipline is desired; (ii) The senior faculty member may be designated as the chairman/HoD of the newly established department; (iii) Required number of faculty may be appointed immediately on permanent basis or on TTS. As a quick fix a visiting Professor may be hired to fill the gap; (iv) Recommended textbooks shall be provided at the library on an emergency basis, reference should be arranged as soon as possible and research journals should be purchased to meet the minimum criteria; (v) Access to computers a digital library for facilities and students should be ensured; (vi) In-service training in teaching and research for the young faculty should be arranged. In addition, faculty development programs should be initiated for faculty members; (vii) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (viii) The industrial linkages must be developed and strengthened; (iv) Establishment of better liaison and collaboration with research institutes and progressive farmers for students internship and on job training as well as joint research; (v) More funds for the departmental research activities by empowering the Chairman/HoD to utilize the funds instead of central control; (vi) Sufficient use of teaching aids like the use of multimedia in the class rooms.



### 3. Summary of AIC Visit of B.Sc. (Hons.) Plant Breeding & Genetics

Particular	Previous Visit	Current Visit
Nature of Visit	Formal Visit	Follow-up Visit
Program Evaluators	Prof. Dr. Hidayat-ur-Rehman	Dr. Waqas Malik
Date of Visit	November 18, 2015	March 09, 2021
Rating	Y <sub>1</sub> with 600 score (60%)	Y <sub>2</sub> with 550 score (55%)
Remarks	Rating declined	

#### Strengths

(i) Four faculty members including one Professor and three Assistant Professors are rendering their best services for the dissemination of knowledge; (ii) Professor has both Ph.D. and Postdoc however rest of faculty members have Ph.D. and graduated from well reputed universities of the country; (iii) University is located in an agriculturally rich area of Khyber Pakhtunkhwa province, so students can be benefited from Charsadda based agro industry and progressive farmers.

#### Weaknesses

(i) Department is seriously lacking in infrastructure which is imperative for academic activities like dedicated under-graduate labs, classrooms, common room and medical facility etc; (ii) Shortage of annual budget for research and maintenance of laboratories; (iii) Un-availability of research field for experimentation and crop breeding programs; (iv) Un-availability of skilled supporting staff for experimentation etc; (v) Lack of well-established departmental library, girl's common room and faculty offices; (vi) Un-availability of scholarships for needy students.

#### AIC Recommendations

(i) Currently, many disciplines of agriculture are working as single department (Department of Agriculture), this approach is entirely against the sole of quality education. In agriculture each discipline like PBG, Soil Science and Horticulture etc. occupy a very unique place and have different academic and research domains. Therefore, it is highly recommended that a Faculty of Agricultural Sciences may please be establish having different discipline of agriculture headed by separate head/chairman and dean will be competent enough to assist vice chancellor for administrative and academic matter of faculty; (ii) A separate board of studies for the department of PBG should be

constituted to deal the academic matters of the department; (iii) Paid or partly paid internship program of one semester duration may please be initiated at undergraduate level; (iv) New up to date scheme of studies should be adopted by the department after approval from the concerned bodies of the university; (v) Two undergraduate labs. should be established on the priority basis for the hands-on training of enrolled students; (vi) A research farm and containment facility may please be established for experiments; (vii) Independent offices for faculty members are imperative to provide conducive working environment. Therefore, independent offices may please be provided to each faculty member; (viii) It is highly recommended that the administration must expedite the long-awaited promotions/selection of faculty members to the address the sense of depriveness; (ix) Capacity building programs for teaching staff must be initiated to equip the faculty with modern teaching gadgets; (x) Funds for graduate and postgraduate studies should be increased to a reasonable extent to conduct impacted research; (xi) Research funding exclusively for the department should be hunted by the faculty from national and international funding agencies; (xii) Facility of e-library and computer lab. at departmental level should be provided to the students for easily approaching online journals, books and research paper etc.; (xiii) Placement Bureau should be established for the students to provide job opportunities after completion of their degrees; (xiv) New book related to offer courses must be included in the library stock; (xv) A reward-based system must be initiated for the faculty members and researchers to promote the research activities.

## O. BZU Sub-Campus Bahadur, Layyah

### 1. Summary of AIC Visit of B.Sc.(Hons.) Agronomy

Particular	Previous Visit	Current Visit
Nature of Visit	Follow-up Visit	2 <sup>nd</sup> Round Visit
Program Evaluators	Prof. Dr. Abdul Khaliq	Dr. Zubair Aslam
Date of Visit	March 10, 2016	March 22, 2021
Rating	X <sub>3</sub> with 670 score (67%)	X <sub>3</sub> with 690 score (69%)
Remarks	No improvement	

## Strength

(i) The entire faculty in agronomy holds Ph.D. degree and have enough potential for teaching and have good record of publications.



## Weaknesses

(i) Absence of senior and experienced faculty; (ii) Most of the faculty members have no research projects; (iii) There is no proper QEC and evaluation system for teachers and students; (iv) ORIC and QEC lead is missing; (v) Library specialist missing; (vi) Shortage of faculty office; (vii) Little shortage of farm machinery and implements including latest farm equipment; (viii) There is lack of collaboration of faculty with other teaching and research institutes and lack of MoUs with industries etc.

## AIC Recommendations

(i) Induction of senior faculty up to Professor level in Agronomy; (ii) Posting of full time regular Professor as Principal/Director of Bahadur Campus; (iii) Strengthening the faculty of agronomy by conducting the selection board of those posts that are already advertised; (iv) The farm facility needs to be developed further to provide a sound base for practical training of students; (v) Procurement of farm machinery and implements on priority basis; (vi) Recruitment of supporting staff based on relevant qualification/experience for handling the scientific instrument/equipment safely; (vii) Budget allocation for development, research, library and labs. may be specified; (viii) ORIC and QEC should be

established and make it more functional; (ix) Hiring of visiting faculty should be made from relevant specialization only; (x) 8<sup>th</sup> semester students should be engaged in their internship program (preferably paid) in different public and private sectors for their exposure to research and better job opportunities and courses being taught in final semester should be shifted to 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> semesters; (xi) The industrial linkages must be developed and strengthened for the addition of departmental resources.

## 2. Summary of AIC Visit of B.Sc. (Hons.) Entomology

Particular	Previous Visit	Current Visit
Nature of Visit	Follow-up Visit	Follow-up Visit
Program Evaluators	Prof. (Retd). Dr. Muhammad Aslam	Dr. Muhammad Arshad
Date of Visit	March 10, 2016	March 22, 2021
Rating	Y <sub>1</sub> with 624 score (62.4%)	Y <sub>1</sub> with 630 score (63%)
Remarks	No improvement	

### Strengths

(i) Faculty is rationally involved in the research activities and publishing their work in well reputed national and international journals; (ii) Faculty and students seem satisfied with medical, transport and hostel facilities; (iii) Opportunities for multidisciplinary research.

### Weaknesses

(i) There is no senior (Professor and Associate Professor) faculty members in the department; (ii) Number of regular faculty members is still quite low; (iii) Still insufficient number of journals and books; (iv) Online classes and examination system is very weak; (v) The trained lab. staff is not available in the department; (vi) There is no linkage with the industry and other research institutes in public and private sector; (vii) Farm machinery and implements are not sufficient for research; (viii) Minutes of the academic bodies are not available in the department and the sub-campus; (ix) There is no proper faculty training program; (x) Establishment of placement bureau is lacking.

### AIC Recommendations

(i) A proper faculty training program should be initiated to equip the teachers with modern techniques for the quality teaching; (ii) More faculty should be appointed on permanent basis or on TTS to meet the



HEC criteria. Special consideration should be given to the appointment of senior faculty members; (iii) Faculty members should be encouraged to create the resources in the department in the form of research grants from different national and international funding agencies; (iv) A separate research budget should be allocated to the department; (v) More text books and research journals (local and international) should be purchased to improve the standard of the library and need of the students;



(vi) Transport facility should be improved for frequent visits of faculty and students to research farm; (vii) More area of agriculture farm for research and practical should be cleared and leveled to meet the requirement of the program; (viii) Minutes of all the academic bodies should be available in the department at sub-campus; (ix) The laboratory staff should be trained for practical demonstration of insects to the students; (x) There should be a focal person from each department for managing online courses and examination; (xi) There should be a representative of ORIC at sub-campus for providing foreign scholarship opportunities for higher studies to the students; (xii) The industrial linkages must be developed and strengthened for the addition of departmental resources; (xiii) Practical research work should be focused to produce quality student research work; (xiv) 8<sup>th</sup> semester students should be engaged in their internship program (preferably paid) in different public and private sectors for their exposure to research and better job opportunities and courses being taught in 8<sup>th</sup> semester should be shifted to 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> semesters; (xv) Irrelevant visiting faculty hiring should be discouraged.

### 3. Summary of AIC Visit of B.Sc.(Hons.) Horticulture

Particular	Previous Visit	Current Visit
Nature of Visit	Follow-up Visit	2 <sup>nd</sup> Round Visit
Program Evaluators	Prof. Dr. M Jaffar Jaskani	Dr. Muhammad Nafees
Date of Visit	February 22, 2016	March 22, 2021
Rating	X <sub>3</sub> with 690 score (67%)	X <sub>3</sub> with 690 score (69%)
Remarks	No improvement	

#### Strengths

(i) Qualified, competent, enthusiastic and highly motivated young faculty actively involved in teaching, research and publication of research results; (ii) Peaceful and conducive environment for learning; (iii) Two funded research projects with hired TTS faculty.

#### Weaknesses

(i) No senior faculty (Professor or Associate Professor) in the department; (ii) Centralized administrative and financial system at the college level under the control of Principal; (iii) Limited research facilities due to budget constraints as budget for equipment, instruments, chemicals and glassware etc. is not enough; (iv) Lack of greenhouse, growth chambers, cold store etc. for faculty research and students practical work; (v) Non-availability of trained support staff especially laboratory staff (Lab. Technician, and Lab. Assistant) to operate and maintain the equipment and instruments; (vi) No independent board of studies and departmental budget head.

#### AIC Recommendations

(i) Special consideration should be given to the appointment of senior faculty member at Professor and Associate Professor in the department; (ii) Well-trained support staff especially laboratory staff (Lab. Technician and Lab. Assistant) be appointed to operate and maintain the equipment and instruments and well trained administrative/ clerical staff be appointed for dealing official matters and maintaining office record; (iii) Lab. facilities are insufficient, at least one more lab. with tissue culture facilities be established; (iv) Budget for equipment, instruments, chemicals, glassware and books should be increased; (v) A separate departmental board of studies be constituted to deal with academic matters of the department; (vi) At least two sets of prescribed/recommended text and reference books and research journals should be purchased to improve the standard of the library and other facilities like

photocopier and scanners be established to cater the need of the students. However, college central library should be upgraded with sufficient facilities to promote learning environment; (vii) Provision of IT facilities to the students and access to HEC digital library must be ensured (viii) Faculty should be motivated to write and win viable research projects; (ix) Necessary arrangements should be made for guidance and counseling to the students; (x) As the degree is professional, the pass marks may be increased to 50% and D grade should be abolished; (xi) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (xii) The industrial linkages must be developed and strengthened.

## P. Balochistan Agriculture College, Quetta

### 1. Summary of AIC Visit of B.Sc. (Hons.) Agronomy

Particular	Previous Visit	Current Visit
Nature of Visit	Formal Visit	Follow-up Visit
Program Evaluators	Dr. Mustajab Ahmed Khan	Prof. Dr. Nazim Hussain
Date of Visit	September 7-8, 2015	April 5-6, 2021
Rating	Y <sub>1</sub> with 620 score (62%)	X <sub>3</sub> with 675 score (67.5%)
Remarks	Rating improved	

#### Strengths

(i) Department has sufficient faculty and two of them have Ph.D. degree; (ii) Strict discipline uniform is compulsory for all the students; (v) Internship and job opportunities in public and private sectors.

#### Weaknesses

(i) Faculty is young and not sufficiently qualified and experienced; (ii) Lack of lab. equipment; (iii) Lack of research journals; (iv) No internet facility; (v) No access to digital library; (vi) Lab. maintenance budget is less than required; (vii) Research area is common and not specified; (viii) Budget for purchase of books is limited; (iv) Trained lab. staff is less than required.





## AIC Recommendations

(i) Departmental library is needed to be strengthened immediately; (ii) Advance equipment like atomic absorption spectro-photometer, spectrophotometer, flame photometer and other allied equipment should be available to equip young scientist with modern research capabilities or may have MoU with any other institution these equipment for use by students; (iii) Research journal and internet facility should be available to all students; (iv) Modern equipment and more hand gadgets needs to be provided; (v) Glass and greenhouse should be provided to under-graduates, graduate and students for learning and research activity; (vi) A learned faculty member should be hired to disseminate the new technologies and innovations to the students and fellow colleagues; (vii) There should be trainings for the faculty members at advance research facilities in the country and abroad to equip the faculty with modern technologies and knowledge; (viii) Short/long term trainings should be provided to the faculty teaching staff to enhance their teaching and research capabilities; (ix) Funds should be arranged teaching staff to participate in conferences, workshops and seminars etc in the country and abroad; (x) College may be connected with HEC digital library for which internet facility may be arranged; (xi) Government and NGOs may step forward to help the teaching and student body with more funds and incentives like short and long term scholarships/grants, computers laptops and study/knowledge enhancing tours etc; (xii) Collaboration with govt. and private sector should be enhanced; (xiii) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (xiv) The industrial linkages must be developed and strengthened.



## 2. Summary of AIC Visit of B.Sc. (Hons.) Entomology

Particular	Previous Visit	Current Visit
Nature of Visit	Formal Visit	Follow-up Visit
Program Evaluators	Prof. Dr. Ghulam Jilani	Prof. Dr. Muhammad Afzal
Date of Visit	September 7-8, 2015	April 5-6, 2021
Rating	Y <sub>1</sub> with 610 score (61%)	Y <sub>1</sub> with 630 score (63%)
Remarks	No improvement	

### Strengths

(i) A very good discipline and uniform is compulsory for students; (ii) Regular field visits and study tours; (iii) Job opportunities in public and private sectors.

### Weaknesses

(i) Lack of availability of recent textbooks in the library; (ii) Publications by the faculty are not good in terms of numbers and quality; (iii) None of the faculty has won the competitive grants; (iv) No collaboration with international research institutes; (v) Insufficient infrastructure and farmland for on-farm research for faculty and students; (vi) No separate budget for the department; (vii) No internet facility; (viii) Lack of research journals; (ix) Insufficient lab. equipment; (x) No access to digital library.

### AIC Recommendations

(i) There is an immediate need to strengthen the departmental library and laboratories; (ii) Research journals and more books should be provided. Internet facilities should be provided to students and faculty; (iii) The department needs equipment like potter's spray tower, spray pumps of different types, environmental chamber, growth chamber, desiccator and high-speed centrifuge, etc; (iv) The faculty members should be provided training in modern molecular and biotechnological techniques; (v) Capacity of young faculty members may be enhanced through short term and long-term trainings abroad; (vi) Postgraduate research should be improved and expanded to the molecular and biotechnological levels; (vii) Appointment of new faculty especially Ph.Ds. and support staff; (viii) Establishment of an insect museum for current and future research; (ix) The department needs more space for faculty offices; (x) Provision of funds to faculty members for participation in conferences, seminars and workshops at national and international levels; (xi) Arrangement of

workshops seminars at the department by inviting national experts; (xii) 8<sup>th</sup> semester may be dedicated for Internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (xiii) The industrial linkages must be developed and strengthened.

### 3. Summary of AIC Visit of B.Sc.(Hons.) Horticulture

Particular	Previous Visit	Current Visit
Nature of Visit	Formal Visit	Follow-up Visit
Program Evaluators	Dr. Muhammad Javed Tareen	Prof. Dr. Aman Ullah Malik
Date of Visit	September 7-8, 2015	April 5-6, 2021
Rating	Y <sub>1</sub> with 610 score (61%)	Y <sub>1</sub> with 630 score (63%)
Remarks	No improvement	

#### Strengths

(i) Best deciduous horticulture province; (ii) College (now university) location in the heart of province Quetta; (iii) Experienced faculty with great potential for training manpower to serve industry/community.

#### Weaknesses

(i) Currently infrastructure and operational funds are very limited, which hopefully will improve after its transition to university; (ii) Limited exposure of faculty to international environment; (iii) Lack of funded research projects; (iv) Limited research publications; (v) Delay in availability of inputs; (vi) Very limited IT and internet facilities and hampering students access to information and gaining practical skills in various software; (vii) Linkages with external and international institutions are weak.

#### AIC Recommendations

(i) Induction of highly qualified and practically trained faculty; (ii) Staff strength, labs. and experimental field operational expenses etc. should be met to enhance quality of education; (iii) Initiate academic and research linkages with international institutions especially focusing neighboring countries with similar agro-ecological conditions/industry; (iv) Develop comprehensive plan for supporting all staff to get Ph.D. degree, with research focus in the respective deciduous industry; (v) Management should

encourage and motivate faculty involving them through consultative process for developing various policies and operational strategies; (vi) For improving student professional skills, practical manuals to be developed and more on farm work should be introduced; (vii) IT based facilities, trainings and internet facilities have become indispensable tools for modern university education, especially after covid-19, this area must be strengthened on priority; (viii) Planned annual activity calendar for need based trainings/seminars/community involvement etc. should be developed/implemented; (ix) Management should create/organize opportunities of interaction of students parents with faculty to develop strong bond and support for organization; (x) Salary of visiting faculty should be increased reasonable to retain them and keep motivated till they are hired at university; (xi) University should analyze local industry needs and develop research projects in collaboration with other researchers/institutions but targeting the local issues; (xii) Faculty should focus on research publications as well as writing good manuals for growers locally grown crops; (xiii) Balochistan especially upland has unique deciduous industry, department should prioritize on postharvest, value addition research infrastructure, activities and trainings etc. to make local industry more export oriented and competitive; (xiv) Student support facilities scholarships need to be increased; (xv) 8<sup>th</sup> semester may be dedicated for Internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (xvi) The industrial linkages must be developed and strengthened.

#### 4. Summary of AIC Visit of B.Sc. (Hons.) Plant Breeding & Genetics

Particular	Previous Visit	Current Visit
Nature of Visit	Formal Visit	Follow-up Visit
Program Evaluators	Prof. Dr. Abdul Gabbar Malik	Dr. Waqas Malik
Date of Visit	September 7-8, 2015	April 5-6, 2021
Rating	Y <sub>3</sub> with 530 score (53%)	Y <sub>2</sub> with 552 score (55.2%)
Remarks	Rating slightly improved	

#### Strengths

(i) Five faculty members including two Assistant Professor and three Lecturers are rendering their best services for the dissemination of knowledge; (ii) One Assistant Professor and a Lecturer hold Ph.D. from well reputed universities of the Pakistan and USA; (iii) The Balochistan Agriculture College is only institute of the province offering degree programs in agriculture, so it has opportunity to hunt brilliant

students across the province.

## Weaknesses

(i) Very few administrative powers for the administration at departmental as well as college level due to working under the control of provincial Govt; (ii) Department is seriously lacking in infrastructure which is imperative for academic activities like dedicated under-graduate labs., classrooms, common room and medical facility etc; (iii). Shortage of annual budget for research and maintenance of laboratories; (iv) Un-availability of research field for experimentation and crop breeding programs; (v) Un-availability of skilled supporting staff for experimentation etc; (vi) Lack of well-established departmental library and faculty offices.



## AIC Recommendations

(i) More seasoned and senior faculty members of the rank of Professor and Associate Professor must be inducted to strengthen the academics of the department; (ii) It is highly recommended that the administration expedite the long-awaited promotions of faculty members to the address the sense of depriveness; (iii) Administrative action may please be taken to make the wages of visiting faculty at-par to the other public sector universities; (iv) Capacity building programs for teaching staff must be initiated to equip the faculty with modern teaching gadget; (v) A separate board of studies for the department of Plant Breeding and Genetics should be constituted to deal the academic matters of the department; (vi) The grading system of examinations (CGPA) must be similar to other agricultural academic institutes of the country to ensure the equal opportunities for the graduates of the



department; (vii) Paid or partly paid internship program of one semester duration may please be initiated at undergraduate level; (viii) New up to date scheme of studies should be adopted by the department after approval from the concerned bodies of the affiliating university; (ix) Two undergraduate labs. should be established on the priority basis for hands-on training of enrolled students; (x) A research farm/field and containment facility must be established for experiments; (xi) Independent offices for faculty members are imperative to provide conducive working environment. Therefore, independent offices may please be provided to each faculty member; (xii) Funds for graduate and postgraduate studies should be increased to a reasonable extent to conduct impacted research; (xiii) Research funding exclusively for the department of should be hunted by the faculty from national and international funding agencies; (xiv) A reward-based system must be initiated for the faculty members and researchers to promote the research activities; (xv) Facility of e-library and computer lab. at departmental level should be provided to the students of the department for easily approaching online journals, books and research paper etc.; (xvi) Placement Bureau should be established for the students to provide job opportunities after completion of their degrees; (xvii) Male and female Director Students Affairs may please be appointed at the departmental level to resolve the issue of students; (xviii) New book related to offer courses must be included in the library stock; (xix) On campus boarding facility for female students should be arranged to provide equal opportunities.

## 5. Summary of AIC Visit of B.Sc. (Hons.) Plant Pathology

Particular	Previous Visit	Current Visit
Nature of Visit	Formal Visit	Follow-up Visit
Program Evaluators	Prof. Dr. Shahbaz Talib Sahi	Prof. Dr. Muhammad Saleem Haider
Date of Visit	September 7-8, 2015	April 5-6, 2021
Rating	Y <sub>1</sub> with 615 score (61.5%)	Y <sub>1</sub> with 635 score (63.5%)
Remarks	No improvement	

### Strengths

(i) Good working relationship among the faculty; (ii) Availability of orchards in the vicinity of college with varieties of temperate fruits for demonstration and research purposes; (iii) Regular field visits and study tours.

## Weaknesses

(i) Lack of qualified faculty members particularly in areas of plant virology and phyto bacteriology; (ii) No access to digital library; (iii) No book bank facility for student; (iv) No lab. equipment for molecular level researches; (v) Lack of funds for research and books; (vi) There is no hostel for female students.

## AIC Recommendations

(i) Improvement of infrastructure in the form of more laboratories, lecture rooms, computing facilities and offices etc.; (ii) Subscription to research journals and access to digital library; (iii) Purchase of recent books for the library and establishment of book bank; (iv) Procurement of necessary equipment for sophisticated research such as thermos cyclor and gel doc system etc.; (v) Capacity building of the faculty and supporting staff; (vi) Appointment of faculty with specialization in plant virology and bacteriology; (vii) Funds should be arranged for participation of faculty members in conferences, workshops and seminars at national and international level; (viii) Establishment of students career counseling center and students financial aid services; (ix) Establishment of alumni association; (x) Establishment of external linkages office; (xi) Enhancement of research budget to improve the quality of faculty and students' research; (xii) Suitable, relevant and expert faculty may be invited on "Sabbatical" from different institutions of the country to fill the gaps of human resource deficient in academic areas; (xiii) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (xiv) The industrial linkages must be developed and strengthened.

## 6. Summary of AIC Visit of B.Sc.(Hons.) Soil Science

Particular	Previous Visit	Current Visit
Nature of Visit	Formal Visit	Follow-up Visit
Program Evaluators	Dr. Mustajab Ahmed Khan	Prof. Dr. Inayatullah Rajpar
Date of Visit	September 7-8, 2015	April 5-6, 2021
Rating	Y <sub>1</sub> with 635 score (63.5%)	X <sub>3</sub> with 652 score (65.2%)
Remarks	Rating improved	



## Strengths

(i) The department has 07 faculty members to run the degree program out of these 02 members are highly qualified and hold Ph.D. degree; (ii) The students and staff members were found quite happy and satisfied with some joint facilities including transport, library, computing and classrooms, etc.; (iii) The faculty members particularly HoD working in this department were found active and involved in publication of research, submission/winning/ running of projects and participate in conferences, seminars and symposia, etc.; (iv) Administrative staff and leading officials are quite active enough to upgrade the department and college.

## Weaknesses

(i) There is a shortage of senior (Professor and Associate Professor) faculty; (ii) There is no proper policy or system of promotion and/or up-gradation of faculty members in the college; (iii) Hi-tech lab. equipment including AAS, kjeltec analyzer are lacking for conducting practical classes and analyses. Particularly there was shortage of facilities in the lab. to work on soil microbiology, mineralogy, soil survey, soil physics and soil conservation, etc.; (iv) There seems to be shortage of separate technical and supporting staff (skilled and unskilled); (v) Interest of students in opting soil science as their major field of specialization is poor; (vi) Field trips/visits for students are not frequently organized; (vii) Accommodation facilities for boys students were found inadequate whereas for girl students and staff were lacking.

## AIC Recommendations

(i) Shortage of regular senior faculty should be overcome through appointment, following the HEC recommended ratio for composition of faculty members; (ii) Proper policy for appointment and promotion shall be developed and implemented for department by the authorities; (iii) International and national training programs for improving the quality and qualification of new faculty members should be initiated and continued; (iv) More hi-tech lab. equipment should be purchased for the department. The chemicals and glassware should be properly labeled and stored; (v) Technical and skilled supporting staff should be appointed in the department; (vi) Field visits/study tours for major students should be frequently organized by the department; (vii) All faculty members should be activated and encouraged to develop and submit problem-oriented long term and short term research projects for further strengthening the teaching and research facilities in the department; (viii) The students may be encouraged to opt. soil science as a major subject through effective counseling; (ix) HEC curriculum(2014) should be adopted; (x) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (xi) The industrial linkages must be developed and strengthened; (xii) Salary packages may be revised to make them compatible with other public sector HEI's.

## Q. University of Sargodha

### 1. Summary of AIC Visit of B.Sc.(Hons.) Agricultural Economics

Particular	Previous Visit	Current Visit
Nature of Visit	Follow-up Visit	Follow-up Visit
Program Evaluators	Prof. Dr. Abdul Saboor	Dr. Muhammad Khalid Bashir
Date of Visit	December 13-14, 2016	May 26, 2021
Rating	Y <sub>1</sub> with 635 score (63.5%)	Y <sub>1</sub> with 642 score (64.2%)
Remarks	No improvement	

### Strength

(i) Satisfactory level of infrastructure available which could further be capitalized productively (rich source of e-books being provided to all students).



## Weaknesses

(i) Overall shortage of faculty particularly senior positions of Professor and Associate Professor; (ii) Unable to win research projects from external sources; (iii) No conferences/seminars/webinars were conducted; (iv) Lack of academia industry linkages; (v) Relatively poor IT facilities and reference material.

## AIC Recommendations

(i) Regular senior faculty must be appointed on priority basis; (ii) Project writing especially PC-1 writing for project proposals should be conducted on a regular basis; (iii) The contractual academic staff may be appointed on contract basis rather on per lecture basis, this will ensure experience to the young faculty and prove to be a good incentive to stick with the department; (iv) At least two sets of recommended text books of all the courses must be available in the library; (v) Business community and industrialist to be mobilized for getting technical, logistic and scholarship support; (vi) Alumni record should be maintained; (vii) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (viii) The industrial linkages must be developed and strengthened; (ix) Conferences/Seminars should be arranged for the capacity building of the faculty.

## 2. Summary of AIC Visit of B.Sc. (Hons.) Agronomy

Particular	Previous Visit	Current Visit
Nature of Visit	Follow-up Visit	Follow-up Visit
Program Evaluators	Prof. Dr. Fayyaz-ul-Hassan	Prof. (Retd). Dr. Riaz Ahmad
Date of Visit	December 13-14, 2016	May 26, 2021
Rating	Y <sub>1</sub> with 610 score (61%)	X <sub>2</sub> with 720 score (72%)
Remarks	Rating improved	

## Strengths

(i) Two well-equipped labs. available for under and postgraduate students and department got success in the extension of two further labs. that will be handed over in the near future as construction is at the final stage; (ii) All faculty members are Ph.D. with good expertise in their research field as each faculty

has a significant publication record; (iii) International collaboration is well established and implemented.



## Weaknesses

(i) Lack of teacher training with frequent intervals; (ii) Lack of technical staff in labs. that needs to facilitate the students during experimentation or operating instruments; (iii) Lack of training for students for safety and security measures in the laboratory; (iv) Lack of first-aid medical facilities for faculty and students; (v) Lack of indoor game facilities; (vi) During the pandemic situation no opportunity for field/study tours; (vii) Alumni association needs to be established; (viii) Computer facilities are inadequate as the college has one common computer lab. for all the departments.

## AIC Recommendations

(i) Post of senior faculty like Professor and Associate Professor should be advertised; (ii) Induction of technical staff should be done for smooth function of labs; (iii) Study tour/field visit should be arranged on regular basis with frequent intervals; (iv) Medical facilities should be provided in the college for faculty and students as the college is far away from the city; (v) Alumni association should be established to facilitate the new graduates which also increase the collaboration between stakeholders; (vi) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (vii) The industrial linkages must be developed and strengthened.

### 3. Summary of AIC Visit of B.Sc. (Hons.) Animal Sciences

Particular	Previous Visit	Current Visit
Nature of Visit	Follow-up Visit	Follow-up Visit
Program Evaluators	Dr. Muhammad Farooq Khalid	Prof. Dr. Muhammad Aslam Mirza
Date of Visit	January 02, 2017	May 26, 2021
Rating	Y <sub>1</sub> with 630 score (63%)	Y <sub>1</sub> with 642 score (64.2%)
Remarks	No improvement	

#### Strength

(i) Satisfactory level of students who are keen to progress in the field of Animal agriculture sciences.

#### Weaknesses

(i) Shortage of faculty particularly senior position of Professor; (ii) Faculty members unable to win research projects (over million) from external sources; (iii) No conferences, seminars/webinars were conducted; (iv) Premature initiation of postgraduate degree i.e. M.Sc. (Hons.) Animal nutrition; (v) Poor academia-industry linkages.

#### AIC Recommendations

(i) Regular and capable senior faculty may be appointed on priority basis; (ii) The contractual academic staff may be regularized; (iii) Young faculty may be advised to submit workable research projects; (iv) Dairy/animal and modern poultry farms may be established at the site; (v) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (vi) The industrial linkages must be developed and strengthened.

#### 4. Summary of AIC Visit of B.Sc.(Hons.) Forestry

Particular	Previous Visit	Current Visit
Nature of Visit	Follow-up Visit	Follow-up Visit
Program Evaluators	Prof. Dr. M. Tahir Siddiqui	Prof. (Retd). Dr. M. Tahir Siddiqui
Date of Visit	January 10, 2017	May 26, 2021
Rating	Y <sub>2</sub> with 580 score (58%)	X <sub>3</sub> with 670 score (67%)
Remarks	Rating improved	

##### Strength

(i) Adequate infrastructure available which could further utilized in a productive way.

##### Weaknesses

(i) Shortage of senior faculty especially Professor; (ii) Unable to win competitive research grants; (iii) Academia industry linkage very poor; (iv) No seminars/ conferences were organized; (v) Relatively poor IT facilities and reference material

##### AIC Recommendations

(i) The faculty of the department must be brought to the minimum standard i.e. 1:1:2:2. There is dire need of an experienced Professor in the department; (ii) The newly inducted teachers must be provided with trainings encompassing important aspects of teaching and research. Orientation as well as refresher courses for the teaching and supporting staff may be arranged on regular basis; (iii) There should be allocation of some budget to support field based research instruments. Nursery should be upgraded having planting material available to the public on no loss no profit basis; (iv) The need of field/study tours in Forestry & Range Management cannot be overemphasized. Therefore the department of forestry should have its own transport vehicles at least one bus and one coaster that can be used instantly as and when required without involving administrative approval. Overall 5 to 10 tents/camps may be provided to the department for overnight stay during study tours; (v) Provision of annual budget for departmental library is recommended or faculty must develop projects with head for purchasing relevant books to be placed in departmental library; (vi) Subscription of at least two foreign journals of international repute most relevant to the Forestry science are recommended; (vii) Short foreign visits for teachers for boosting up research activities may be arranged; (viii) 8<sup>th</sup> semester may be



dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (ix) The industrial linkages must be developed and strengthened.

## R. The University of Poonch Rawalakot

### 1. Summary of AIC Visit of B.Sc.(Hons.) Entomology

Particular	Previous Visit	Current Visit
Nature of Visit	Follow-up Visit	2 <sup>nd</sup> Round Visit
Program Evaluators	Dr. Humayun Javed	Dr. Munir Ahmed
Date of Visit	May 16, 2016	June 07, 2021
Rating	X <sub>3</sub> with 651 score (65.1%)	X <sub>3</sub> with 680 score (68%)
Remarks	No improvement	

### Strengths

(i) Four Ph.D. faculty members comprising Assistant Professors (one regular, one TTS, two contract) and two Lecturers (enrolled for Ph.D.); (ii) Two well-equipped laboratories with modern equipment like PCR, gel electrophoresis, atomic absorption spectrophotometer and microscope with TV are present.



## Weaknesses

(i) Not frequent field visits for the undergraduate students for forest and industrial entomology pest problems; (ii) Harsh winter weather is one of the major hurdle; (iii) More space and development of internet of things based class rooms is required for quality education.

## AIC Recommendations

(i) Additional space is required for classrooms and laboratories; (ii) Faculty members need to be trained in equipment available for advanced molecular and biotechnological areas of entomology; (iii) The capacity of young faculty members may be enhanced through short term and long term training abroad especially for the teaching and research for student guidance and training; (iv) Research on local problems/field oriented problems must be taken on top priority.

## 2. Summary of AIC Visit of B.Sc. (Hons.) Food Science & Technology

Particular	Previous Visit	Current Visit
Nature of Visit	Follow-up Visit	2 <sup>nd</sup> Round Visit
Program Evaluators	Prof. Dr. Alam Zeb	Prof. Dr. Anwaar Ahmed
Date of Visit	June 20, 2016	June 07, 2021
Rating	X <sub>3</sub> with 675 score (67.5%)	X <sub>3</sub> with 680 score (68%)
Remarks	No improvement	

## Strengths

(i) Department has highly qualified and experienced faculty with good theoretical and experimental skills specialized in variety of subjects; (ii) The department has advanced curriculum, updated regularly keeping national and international criterion and requirements following the directions of NCRC, HEC; (iii) The departmental laboratories are equipped with latest technology and facilities; (iv) The departmental alumni are showing excellent performance in international and national sectors; (v) Free consultancy services to farmers and local community for value addition and preservation of indigenous fruits.

## Weaknesses

(i) Space and funds constrictions; (ii) Research funding for Ph.D. and M.Sc. (Hons.) students need to be

improved; (iii) Well qualified Labs. Technicians are not sufficient hence more number is needed; (iv) Lack of accommodation and sports facilities; (v) Limited access to HEC digital library and subscription to foreign journals.

### AIC Recommendations

(i) The construction of buildings regarding academic and research infrastructure should be completed on priority basis; (ii) Qualified and well-trained laboratory staff (Lab. Technician and Lab. Assistant) be appointed to operate and maintain the equipment and instruments; (iii) Well trained administrative/clerical staff be appointed for dealing official matters and maintaining office record; (iv) Necessary arrangement should be made for guidance and counseling to the students. Adequate accommodation and sports facilities should be provided to the students; (v) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (vi) The industrial linkages must be developed and strengthened; (vii) Faculty members should be encouraged to create the resources in the department by hunting research grants from different national and international funding agencies.





## S. Hazara University, Mansehra

### 1. Summary of AIC Visit of B.Sc. (Hons.) Plant Breeding & Genetics

Particular	Previous Visit	Current Visit
Nature of Visit	Accreditation Visit	Accreditation Visit
Program Evaluators	Dr. Muhammad Shahid Masood	Dr. Waqas Malik
Date of Visit	January 1-2, 2018	June 16, 2021
Rating	Y <sub>2</sub> with 565 score (56.5%)	X <sub>3</sub> with 667 score (66.7%)
Remarks	Rating improved	

#### Strengths

(i) The university is located in the agriculturally rich area of Khyber Pakhtunkhwa and graduated students can be a good entrepreneurial for seed industry especially vegetable seed production; (ii) Five Ph.D. faculty members are rendering their best services for the betterment of department; (iii) All faculty member have Ph.D. degrees obtained from well-reputed national, international institutes reasonably involved in the research activities; (iv) Faculty members have national and international research funding from well know funding agencies of the world; (v) Availability of a molecular breeding lab. with





some basic equipment for basic reach and hands-on trainings of students; (vi) Availability of purposely built building for catering the current and future academic needs.

## Weaknesses

(i) Currently PBG degree program is running under the umbrella of department of Agriculture instead of an independent department this approach to run the different departments can hamper the academic progress; (ii) Shortage of budget for conducting research and maintenance of laboratories; (iii) Limited availability of experimental fields, field based machinery and dedicated containment facilities for research; (iv) Un-availability of skilled supporting staff for experimentation etc; (v) Non-availability of undergraduate labs for hands on training of students; (vi) There is no separate departmental library with ample copies of curriculum books.

## AIC Recommendations

(i) Currently, many disciplines of agriculture are working as single department i.e. Department of Agriculture, this approach is entirely against the sole of quality education. In agriculture each discipline like PBG, Soil Sciences and Horticulture etc. occupy a very unique place and have different academic and research domains. Therefore, it is highly recommended that a separate faculty of Agricultural Sciences may please be established having different discipline of agriculture headed by separate HoD/Chairman and Dean will be competent enough to assist Vice Chancellor for administrative and academic matter of faculty; (ii) A separate board of studies for the department of PBG should be constituted having faculty members of PBG and eminent plant scientist from seed industry to deal the academic and research matters of the department; (iii) A reward based system may be initiated for the faculty members and researchers to promote the research activities; (iv) Step may be taken to establish strong linkage between department and industry by holding of seminars and conferences frequently; (v) Paid or partly paid internship program of one semester (8<sup>th</sup>) duration may please be initiated at undergraduate level; (vi) Two undergraduate labs. should be established on the priority basis for the hands on training of enrolled students; (vii) More funds should be allocated for running of molecular lab. and field based experiments; (viii) Ample piece of dedicated on-campus land supplemented with containments (green house/glasshouse/growth chambers etc.) should be arranged for field based experimentation and practical learning of plant breeding methods; (ix) Emphasis must be given for practical training through practical work especially in the field for conducting the field experiments; (x) Capacity building programs for teaching staff must be initiated to equip the faculty with modern teaching gadgets; (xi) Facility of separate departmental library having ample copies of curriculum books should be established for easily availability of journals, books and research paper

etc.; (xii) Although, university have excellent facility of central library but it is observed that library staff is not properly trained/relevant to library management it is suggested at least capacity building/training program may please be initiated for library staff to deal with library related matters; (xiii) Placement Bureau should be established for the students to provide job opportunities after completion of their degrees; (xiv) Some basic facilities like day-care center, appointment of Woman Medical Officer, university school may please be established to facilitate the staff, faculty and students; (xv) It is recommended that measures should be taken to increase the enrolment in the department.

## Pre-Accreditation/Zero Visits

Pre-accreditation/zero visit is basically conducted like pilot testing to check the level of planning of an institution during launching a full degree program. Pre-accreditation/zero visit does not qualify the institution for any interim or conditional accreditation to that specific degree program; it is only an assessment made well before formally assessing/accrediting the full degree program.

During FY 2020-21, NAEAC performed seven pre-accreditation/zero visits in five HEI's of Punjab, Sindh and Khyber Pakhtunkhwa. A summary of external assessments and recommendations is given below:

### 1. University of Central Punjab, Lahore

#### 1. Summary of AIC Visit of BS Food Science & Technology

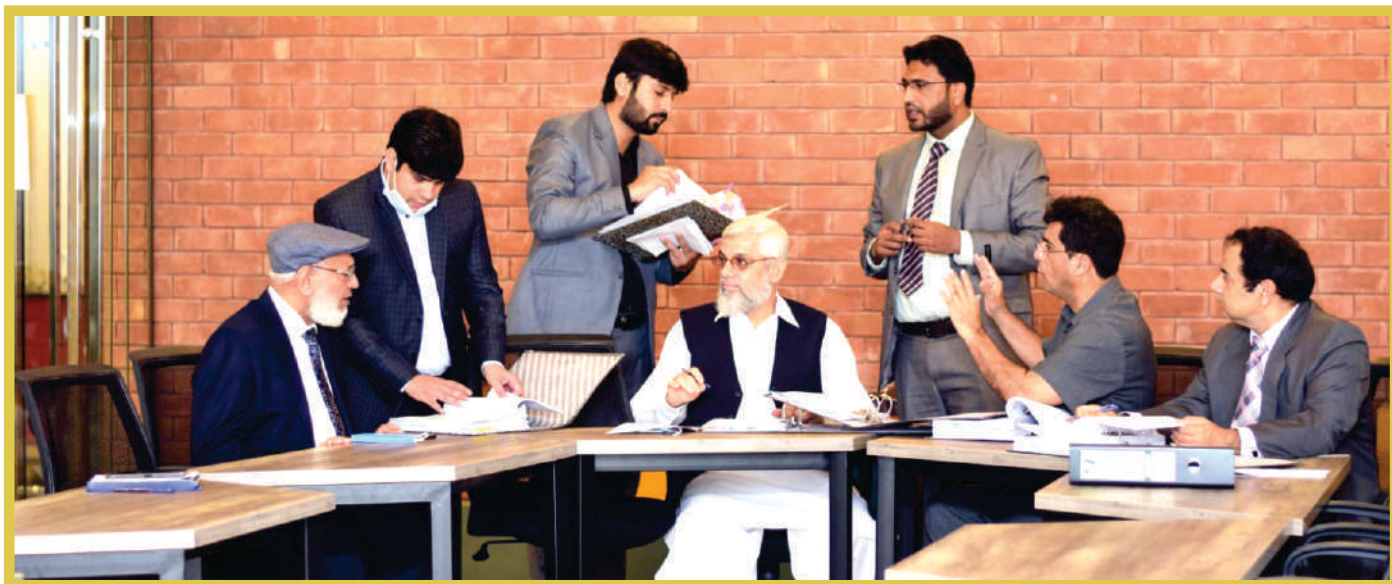
Particular	
Nature of Visit	Pre-Accreditation/Zero Visit
Program Evaluators	Prof. Dr. Masood Sadiq Butt Dr. Imran Pasha
Date of Visit	September 29, 2020

#### AIC Assessment

(i) Presently the department is lacking in the permanent faculty members and structural hierarchy which must be addressed considering the future enrollment; (ii) Board of Studies and faculty board need to be more functional in terms of consecutive meetings and involvement of members from industry; (iii) Course files, review reports and QEC reports demand diligence of the management; (iv) One of the shortfalls is the unavailability of food processing hall and pilot plant units, such as canning, beverage & baking units etc.; (v) The dedicated laboratories are lacking in state of the art equipment like HPLC, GC etc. (vi) Lack of sensory lab. hinders product development.

## AIC Recommendations

(i) There is need to develop structural hierarchy of the faculty by hiring new teaching staff. Keeping in view the future demand new faculty members on the higher cadre i.e. Professor, Associate Professor and Assistant Professors should be recruited; (ii) Board of Studies/faculty board may be more functional with consecutive meetings for swift academic decisions. Attendance of the members from industries must be encouraged; (iii) Course files and review reports ought to be maintained properly for record keeping; (iv) An effective QEC should be maintained by appointing the regular Director QEC to improve the quality of education and feedback; (v) It is advisable to mention that faculty offices be arranged in the food science building for the convenience of students and staff; (vi) Current laboratory facilities should be upgraded with sophisticated instruments. Students must be encouraged to perform practical; (vii) Food processing hall should be established along with installing pilot scale units with special reference to fruits & vegetables, cereals and dairy products that promotes the concept of entrepreneurship among the students; (viii) Training/internship program must be strengthened further through strong academia-industry linkages to enhance the practical skills of the students; (ix) Besides the addition of new books in the main library, it is also suggested that the departmental library be established for the convenience of students; (x) There should be a well-established medical facility/hospital in the UCP premises to provide proper health care to the students and staff at large.





## 2. University of the Punjab, Lahore

### 1. Summary of AIC Visit of B.Sc. (Hons) Agronomy

Particular	
Nature of Visit	Pre-Accreditation/Zero Visit
Program Evaluator	Prof. Dr. Abdul Khaliq
Date of Visit	October 29, 2020

#### AIC Assessment

(i) Absence of a well-equipped research farm; (ii) Centralized administrative and financial system at the institute level; (iii) Limited research facilities due to budget constraints as budget for equipment, instruments, chemicals and glassware etc. is not enough; (iv) Lack of greenhouse, growth chambers etc for faculty research and students practical work; (v) Limited library and dearth of textbooks and reference books; (vi) Non-availability of trained support staff especially laboratory staff (Lab. Technician and Lab. Assistant) to operate and maintain the equipment and instruments; (vii) Lack of senior faculty; (viii) Lack of lab. and farm facility and the equipment/implements to meet practical requirement of the students in the days to come; (ix) Farm area poorly developed; (x) Limited and unskilled supporting staff especially for laboratories.

#### AIC Recommendations

(i) Addition of a well-equipped farm keeping in view the training needs of the students, and enough to cater research requirement; (ii) Special consideration should be given to the appointment of at least one senior faculty member i.e. Professor; (iii) Provision of recommended textbooks and reference books; (iv) Budget for equipment, instruments, chemicals, glassware and books should be increased and made available with HoD; (v) A separate departmental board of studies should be constituted to deal with academic matters of the department; (vi) Faculty should be motivated to write



and win competitive research grants; (vii) Internships (preferably paid) should be arranged during 8<sup>th</sup> semester and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (viii) The industrial linkages must be developed and strengthened.

### 3. Hamdard University, Karachi

#### 1. Summary of AIC Visit of B.Sc. (Hons.) Food Science & Technology

Particular	
Nature of Visit	Pre-Accreditation/Zero Visit
Program Evaluator	Prof. (Retd). Dr. Saghir Ahmed Sheikh
Date of Visit	February 23, 2021

#### AIC Assessment

(i) There is no senior qualified and experienced faculty in the department; (ii) Examination section and their performance are very poor which needs trainings and strengthening for its proper system; (iii) Lab. safety apparatus/equipment (fire extinguishers) was not found and first aid boxes were not available in any lab. or building; (iv) Digital library facilities lack at the departmental library but is available in main building of the institute; (v) The department has limited/fewer books related to field but it needs more books and regular subscription of international research journals; (vii) One of the major weaknesses is the unavailability of departmental food processing units (pilot plant units) such as canning unit, beverage units for carbonated and non-carbonated beverages, sugar and oil extraction and refining; (viii) Lacking of equipment for research and students demonstration at graduate level. Hi-tech equipment may also be arranged for faulty research.

#### AIC Recommendations

(i) Relevant subject specialist experienced faculty should be hired at the earliest; (ii) FST should be established as a separate department; (iii) To purchase the basic Food science research equipment for graduate students like spectrophotometer, colorimeter, refractometer, polarimeter, Kjeldhal apparatus (for protein analysis), grain analyzer, muffle furnace, ovens, water baths, analytical balance, moisture meter, beverage pilot plant, bio fermenter, laminar air flow cabinet, colony counter and camera fitted microscope, etc.; (iv) Consumables should be provided to run the practicals/experiments.

Budgeting for experimentation to be done for effective performance; (v) Fire extinguishers and first aid box must be available in every laboratory; (vi) HEC recommended books must be included as a part of the library; (vii) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (viii) The industrial linkages must be developed and strengthened; (ix) Faculty must be encouraged to hunt for grants from national and international funding/donor agencies; (x) Stand by generator (uninterrupted electric facilities) be provided to the department; (xi) Food processing units such as canning unit, beverage units for carbonated and non-carbonated beverages, sugar and oil extraction and refining should be purchased; (xii) Regular industrial unit visits must be arranged for the students to improve their practical knowledge; (xiii) Transport facility for student must be improved; (xiv) University should organize national & international conference and seminars for capacity building of faculty and students.



## 4. SAU Sub-Campus Umerkot

### 1. Summary of AIC Visit B.Sc. (Hons.) Agronomy

Particular	
Nature of Visit	Pre-Accreditation/Zero Visit
Program Evaluator	Dr. Muhammad Waseem
Date of Visit	February 24, 2021

### AIC Assessment

(i) Experience faculty (Professor, Associate Professor and Assistant Professor) are needed for guiding and developing leadership in the department; (ii) Annual intake of student is low; (iii) Limited number of HEC recognized (National and International) research journal and HEC recommended text books; (iv) Farm machinery and implements are required; (v) Medical facilities for faculty and students are necessitating; (vi) Faculty accommodation, student hostel and sports facilities are lacking.

### AIC Recommendations

(i) B.Sc. (Hons.) degree program in agronomy requires to induct experienced faculty; (ii) Under decentralized system a separate budget head for operational expenditure at the department; (iii) Laboratory Technician training and dark room facilities should be improved; (iv) Supporting staff recruitment with relevant qualification and experience is required; (v) Farm machinery and implements should be purchased; (vi) Students enrolment may be enhanced through awarding merit scholarship, fee in installment and students counseling towards major selection; (vii) A separate departmental library with more HEC recognized research journal and HEC recommended text books are required; (viii) Adoption of updated curriculum through new BoS and BoF; (ix) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (x) The industrial linkages must be developed and strengthened; (xi) Department should develop alumni's association in future; (xii) Development/ improvement of recreational as well as indoor/outdoor sports facilities for students/faculty; (xiii) In addition to existing lab. one more well equipped lab. should be established to fulfill HEC criteria; (xiv) On-campus medical facility should be provided to the students.

## 2. Summary of AIC Visit of B.Sc. (Hons.) Plant Protection

Particular	
Nature of Visit	Pre-Accreditation/Zero Visit
Program Evaluator	Dr. Shafique Ahmad
Date of Visit	February 24, 2021

### AIC Assessment

(i) Shortage of faculty for guiding and developing leadership in the department; (ii) There is no senior and experienced faculty (Professor and Associate Professor) in Plant Protection; (iii) Lab. equipment



especially glassware and chemicals are unavailable to conduct students practical work of the courses in Plant Protection; (iv) Insufficient number of books and latest editions of HEC recommended textbooks; (v) There is provision of computing lab., but there is no internet facility and access to HEC the digital library to meet the needs of the students and the faculty; (vi) No supporting staff especially for administrative work (clerk, attendants etc.); (vii) Field trips/study tours for students are rarely organized; (viii) Students dissatisfied with the available hostel accommodation and medical facilities.



### AIC Recommendations

(i) More faculty members should be appointed on a permanent basis or on TTS including the appointment of highly qualified and well-experienced senior faculty; (ii) Board of Studies should be constituted to deal with academic matters of the department; (iii) The latest HEC curricula should be adopted; (iv) At least necessary chemicals and glassware must be purchased; (v) Study tours/field visits to be organized as part of students practical work; (vi) More text books and research journals be purchased; (vii) Provision of internet facility and access to the HEC digital library to the teachers and students must be ensured; (viii) Safety arrangements and security plans are not in place. The laboratories may also be equipped with fire extinguishers and first aid kits/facilities; (ix) Separate recurring budget be allocated to Plant Protection for smooth functioning of the academic program; (x) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (xi) The industrial linkages must be developed and strengthened; (xii) The university authorities need to make serious efforts to improve the strength of faculty and learning resources to raise the quality of education and upgrade the accreditation category.

### 3. Summary of AIC Visit of B.Sc. (Hons.) Soil Science

Particular	
Nature of Visit	Pre-Accreditation/Zero Visit
Program Evaluator	Dr. Shahmir Ali
Date of Visit	February 24, 2021

#### AIC Assessment

(i) Acute Shortage of senior and experienced faculty (Professor, Associate Professor and Assistant Professor) in department; (iii) Lab. equipment particularly glassware and chemicals are limited; (iv) No internet facilities and access to HEC digital library to meet the need of the students and the faculty; (v) No supporting staff especially for administrative work i.e. clerk, attendants etc; (vi) Field trips / study tours for students are rarely organized; (vii) Students dissatisfied with the available hostel accommodation and medical facilities.

#### AIC Recommendations

(i) Special consideration should be given to the appointment of at least one senior faculty member at Professor or Associate Professor level and two more Assistant Professors and two Lecturers in the department; (ii) The department is deficient of infrastructure required for the degree program therefore two well-equipped laboratories with essential equipment, supplies, chemicals and reagents are required; (iii) The department needs to appoint technically qualified supporting staff. Each laboratory has at least one trained laboratory assistant and one laboratory attendant; (iv) Budget for equipment, instruments, chemicals, glassware and books should be increased and separately allocated to the department; (v) Major subjects allotment procedure is not clear. This creates imbalance in distribution of students in major subjects; (vi) Well trained administrative/clerical staff be appointed for dealing official matters and maintaining office record; (vii) The department does not have medical and sports facility for students. There is need to provide full time medical and sports facility; (viii) A separate departmental Board of Studies should be constituted to deal with academic matters of the department; (ix) Prescribed/recommended text and reference books and research journals should be purchased to improve the standard of the library and other facilities like photocopier and scanners be established to cater the need of the students. However it is strongly recommended that a separate departmental library should be established; (x) There is no access to HEC digital library as no internet on campus is available; (xi) Faculty should be motivated to write and win viable research projects; (xii) Necessary arrangements should be made for guidance and counseling to the students;

(xiii) Participation of faculty members in conferences seminars and workshops may be encouraged to improve exposure and interaction with peer groups worldwide; (xiv) 8<sup>th</sup> semester may be dedicated for internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (xv) The industrial linkages must be developed and strengthened.

## 4. Shaheed Benazir Bhutto University Sheringal, Dir

### 1. Summary of AIC Visit of B.Sc. (Hons.) Food Science & Technology

Particular	
Nature of Visit	Pre-Accreditation/Zero Visit
Program Evaluator	Prof. Dr. Muhammad Ayub
Date of Visit	June 17, 2021

#### AIC Assessment

(i) There is no senior faculty (Professor or Associate Professor) in the department; (ii) Centralized administrative and financial system at the university level; (iii) Limited research facilities due to budget constraints as budget for equipment, instruments, chemicals and glassware etc. is not enough; (iv) Lack of basic and essential equipment in the laboratory, supply of chemicals, reagents and diagnostics are the requirement of quality teaching and research activities for degree program; (v) Lack of processing hall, basic need for faculty research and students practical work; (vi) Lack of proper transport and medical facilities for the students; (vii) Limited library and no book bank facility; (viii) Non-availability of trained support staff especially laboratory staff (Lab. Technician and Lab. Assistant) to operate and maintain the equipment and instruments; (ix) Faculty offices, lecture room and laboratory facilities are insufficient with no provision of departmental library; (x) No computing and internet facilities for the students and teachers; (xi) Weak linkages with institutions and stakeholders; (xii) Shortage of viable research projects to develop and strengthen existing lab. facilities of the department.

#### AIC Recommendations

(i) Relevant subject specialist and experienced faculty should be hired at the earliest; (ii) Departmental library should be established and HEC recommended books must be included as a part of the library; (iii) Regular industrial unit visits must be arranged for the students to improve their practical knowledge; (iv) University should organize national & international conferences and seminars for

capacity building of faculty and students; (v) Food processing units such as canning unit beverage units for carbonated and non-carbonated beverages, sugar and oil extraction and refining should be purchased; (vi) High speed internet facility should be provided to the faculty and students; (vii) Trained support staff especially laboratory staff (Lab. Technician, and Lab. Assistant) should be hired to operate and maintain the equipment and instruments; (viii) Adequate medical and transport facility should be provided to the students; (ix) 8<sup>th</sup> semester may be dedicated for Internships (preferably paid) and if some courses are being taught in final semester those courses may be shifted to 5<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> semester; (x) The industrial linkages must be developed and strengthened; (xi) Practicals should be conducted regularly to train the students properly; (xii) Multimedia must be installed in the classrooms; (xiii) A separate departmental board of studies must be constituted; (xiv) Basic and essential equipment used in FST must be purchased; (xv) Transport and medical facilities should be made available to the students; (xvi) Faculty should be encouraged to hunt research projects from national and international sources; (xvii) Faculty of Agriculture may be constituted for handling all agriculture related programs; (xviii) Financial autonomy at chairman level should be given for smooth functioning of the department; (xix) Day care centers for female faculty must be provided; (xx) Laboratory manuals and emergency medical kits should be available in the labs.





## Review Meetings with Institutions

The council has initiated review meetings with host institutions with objective to review the current status of implementation of AIC recommendations, assessment of constraints and opportunities for quality improvement and future direction. So far, 18 review meetings have been convened at major agriculture institutions.

During FY 2020-21 four review meetings were held at the following four HEI's:

### 1. Lasbela University of Agriculture, Water and Marine Sciences, Uthal

#### Summary of Review Meeting

Disciplines	Agronomy, Entomology, Horticulture, PBG, Plant Pathology and Soil Science
Degree Program	B.Sc. (Hons.)
Nature of Visit	Review Meeting
Date of Visit	November 16, 2020
Program Evaluator	Prof. Dr. Ishtiaq A. Rajwana

The review committee comprising of Prof. Dr. Ishtiaq Ahmad Rajwana, Chairperson NAEAC conducted a review meeting of Agronomy, Entomology, Horticulture, Plant Breeding & Genetics, Plant Pathology and Soil Science degree programs of the faculty of agriculture offered at Lasbela University of Agriculture, Water and Marine Sciences, Uthal on November 16, 2020. During the meeting the HoDs of the above mentioned departments briefed the committee about the progress made by respective departments and actions taken on the recommendations of AICs in their previous visit. The committee also visited the faculty offices, lecture rooms, laboratories, library, other facilities and other necessary documents to verify the improvements/progress made in light of actionable recommendations given in the respective AICs. The committee also had interaction with faculty members and students of these disciplines to get their feedback.

A summary of major recommendations emerged out of the deliberations are as follows:

- It was observed that performance of ORIC and QEC needs to be improved as there were very little research activities going on and no research projects were awarded/ won by the faculty from national and international sources. Faculty training for professional development is also lacking.
- The department of Soil Science was following the old curriculum. It is suggested that NCRC 2014 curriculum should be approved and implemented through statutory process with little variations to fit in the geographic needs. Across the board 8th semester should be mandated for internship. HoDs/Chairpersons of the department should find avenues to send final semester students for paid internship in public/private sector.
- It was observed that internet connectivity is very poor and steps should be taken to improve it. At the same time number of computers should be increased to cater the need of students efficiently.
- More field visits and educational tours should be arranged in order to equip the students with practical knowledge of the field. Departmental financial autonomy for day-to-day research activities is very necessary. Faculty development training program should be made a regular part of the university calendar. Faculty members should be motivated to write and submit maximum number of research projects from national and international sources.

## 2. Shaheed Zulfiqar Ali Bhutto Agriculture College, Dokri

### Summary of Review Meeting

Disciplines	Agronomy, Entomology, Horticulture, PBG, Plant Pathology, Plant Protection and Soil Science
Degree Program	B.Sc. (Hons.)
Nature of Visit	Review Meeting
Date of Visit	February 25, 2021
Program Evaluators	Dr. Amjad Hussain Prof. Dr. Ishtiaq A. Rajwana

NAEAC scheduled a review meeting on February 25, 2021 to monitor the progress of the actionable recommendations of the earlier AICs in the 07 departments of agriculture. A team comprised of Dr. Amjad Hussain, Director R&D, Higher Education Commission and Prof. Dr. Ishtiaq A. Rajwana, Chairperson NAEAC arrived at the college as per earlier communicated plan.

Prof. Dr. Allah Wadhay Gandahi, Principal of the college welcomed the team and appreciated HEC and

NAEAC for their efforts for improving the quality of education in Pakistan. Meeting held in the committee room and all the HoDs were present. After introductory remarks, Principal presented the overall progress and development of the college and informed the house about their future plans. The concerned head of departments presented the progress report on the basis of the earlier communicated format of presentation.



The review committee after day long visit of the campus proposed below mentioned recommendations.

- There is shortage of faculty therefore, appointments of senior and experienced faculty is immediately needed.
- The administrative and financial powers should be decentralized to improve the teaching and research activities
- Experimental farm, green house and glass house facilities should be further developed at the college.
- Lecture rooms having multimedia and new furniture and fixtures should be provided.
- The budget should be enhanced to meet basic requirements of the staff and the students for research, study tours, excursions etc.
- The faculty should be motivated to write and win viable research projects from NRPU, TTSP, GCF, LCF, etc.
- Medical & sports facilities should be upgraded to create a healthy environment.
- The facilities of internet and computing should be ensured for the students and faculty.
- Safety arrangements and security plans are not in place. The laboratories may also be equipped with

fire extinguishers and first aid kits/facilities.

- Participation of the faculty members in conferences, seminars and workshops may be encouraged to improve exposure and interaction with peer groups world.
- Necessary arrangements should be made for the guidance and counseling of the students.
- The existing faculty should be given opportunity of sabbatical to main campus in order to broaden their vision and knowledge.
- 8<sup>th</sup> Semester should be exclusively mandated for internship. HoDs/Chairpersons of the department should find avenues to send final semester students for paid internship preferably.
- Sanctioning of special incentive to retain the existing faculty and to attract new potential faculty.
- Proper training of laboratory staff regarding equipment usage and safety measures is direly needed.
- More and recent books should be purchased.
- Admission policy needed to be decentralized.
- PC-1 for strengthening of SZABAC, Dokri is the need of hour to provide missing facilities and repair existing infrastructure.

### 3. Abdul Wali Khan University, Mardan

#### Summary of Review Meeting

Disciplines	Agronomy, Entomology, Food Science & Technology and Horticulture
Degree Program	B.Sc. (Hons.)
Nature of Visit	Review Meeting
Date of Visit	May 27, 2021
Program Evaluators	Prof. Dr. Ishtiaq A. Rajwana Dr. Abdul Ghaffar

A review meeting was conducted on May 27, 2021 to monitor the progress of the actionable recommendations of the AICs in the above mentioned 04 departments. A team comprised of Prof. Dr. Ishtiaq A. Rajwana, Chairperson NAEAC and Dr. Abdul Ghaffar, Secretary NAEAC arrived at the campus as per mutually agreed plan.

Prof. Dr. Zahoor ul Haq, Vice Chancellor, Abdul Wali Khan University, Mardan welcomed the delegates and after introduction of participants of meeting, he briefly presented an overview of the university



and highlighted the world university ranking 2020-21 by Times Higher Education where AWKUM is first in Pakistan and 510<sup>th</sup> in the world. Prof. Dr. Ishtiaq A. Rajwana, Chairperson NAEAC briefed the audience about NAEAC procedure of accreditation, need, significance and its outcome in different rating categories. Four departments Agronomy, Entomology, Food Science & Technology and Horticulture degree programs of AWKUM were reviewed in this meeting. Each HoD presented a detailed presentation regarding progress of the department covering all aspects of improvement including faculty and infrastructure. After presentations, committee members visited each department to witness the improvement in infrastructure and other facilities being provided to faculty, students and staff.



The review committee after day long visit of the campus proposed below mentioned recommendations.

- Senior faculty may be hired for all departments.
- Latest machinery may be procured to make students familiar with latest technology.
- The HEC recommended books may be acquired.
- To ensure quality graduate research, greenhouse and glasshouse facilities must be upgraded.
- Relevant qualified technical and lab. staff to be inducted on priority basis.
- Urgent purchase of equipments/instruments used in food processing and microbiology practical.
- Operational budget is required for faculty members participation in seminars and conferences.
- Faculty members may be encouraged to participate in getting financial support through research competitive grants like NRPU, ARF, ALP and many other national and international grants.

- Curriculum should be upgraded and 8<sup>th</sup> semester students should be engaged in their internship program (preferably paid) in different public and private sectors for their exposure to research and better job opportunities and courses being taught in 8<sup>th</sup> semester should be shifted to 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> semesters.

#### 4. Ghazi University, D.G. Khan

##### Summary of Review Meeting

Disciplines	Agronomy, Entomology, Horticulture, PBG and Soil Science
Degree Program	B.Sc. (Hons.)
Nature of Visit	Review Meeting
Date of Visit	June 03, 2021
Program Evaluators	Prof. Dr. Muhammad Afzal Prof. Dr. Ishtiaq A. Rajwana

The following review committee conducted a review meeting on June 3, 2021 of Agronomy, Entomology, Horticulture, Plant Breeding & Genetics and Soil Science degree programs of the faculty of agriculture being offered at Ghazi University, Dera Ghazi Khan.

1. Prof. Dr. Muhammad Afzal, Vice Chancellor, Baba Guru Nanak University, Nankana Sahib
2. Prof. Dr. Ishtiaq Ahmad Rajwana, Chairperson, NAEAC

During the meeting the Chairperson of the above-mentioned departments briefed the committee about the actions taken on the recommendations made by the respective AICs in their previous meetings/visits. The progress made/actions taken by the university in this regard is given below department-wise. The committee visited faculty offices, lecture rooms, laboratories, library and other facilities being provided to the students and necessary documents to verify the improvements /progress made in light of actionable recommendations given by the respective AICs. The committee also made interaction with faculty members of these disciplines to get their feedback. However, the committee could not be able to get feedback from students due to the covid-19 pandemic precautionary closure of classes at the university.



A summary of major compliance/progress status are as follows:

- The faculty of agricultural sciences was established at the new campus of Ghazi university. As the campus lacks a boundary wall therefore due to security concerns of district administration it was shifted to the city campus temporarily. The committee was informed that the boundary wall of the city campus is near to completion and expected to be completed well before the start of Fall-semester 2021-22.
- The review committee at new campus observed that the buildings (admin block and academic block, faculty offices, classrooms, labs. and boys hostel), lab. equipment and some other facilities are available. Committee noticed a significant improvement towards the development of infrastructure i.e. extension of admin block, new academic block, new boys hostel, girls hostel, students cafeteria and bachelor faculty hostel. Significant improvement in “Agricultural Research Farm” was observed by the committee. The committee was also informed that a tube well and two turbines have been installed at the agriculture farm for a continuous supply of irrigation water. In addition, five cusec irrigation water from DG canal has been approved and basic infrastructure has been completed. Further Agriculture farm has been extended by adding more area under cultivation. Farm management is planning to develop digital agriculture by purchasing new machinery, conventional and highly pressurized auto-irrigation and e-monitoring system. The date palm and ber orchards are in better condition and their extension is under process. The establishment of orchards of major tropical and sub-tropical fruits are under planning.
- The committee found teachers were quite satisfied as new induction/selection or promotion were made by the university authorities during the current year. Previously, there was no Professor or Associate Professor in the faculty of agricultural sciences or even whole the university which were



being run by Assistant Professors and Lecturers. Now a lot of Assistant Professors have been selected to the higher rank of Associate Professor. Now with new induction/selection the number of senior faculty has risen to two Professors and sixteen Associate Professors. Funding which is necessary as an incentive for faculty to conduct the research and publish their findings in well reputed local or international journals have been approved by the syndicate. It has been observed that the number of publications is increasing significantly with a good impact factor. The faculty members were found quite satisfied by prevailing opportunities and funding for attending and organizing national or international webinars, conferences, seminars, symposia, workshops, training etc. The committee observed that Ghazi University has attained the project and provided open access to digital library, turnitin software for plagiarism check/similarity index to students and faculty supervisor/teachers that is an integral part of quality education and research. The library at city campus was found in a good condition with a computerized record of books and periodicals.

- During the visit, it was observed that the government instructions to overcome pandemic covid-19, the precautionary measures were observed and the classes were being taught online regularly through MS-Teams. The faculty members and students have been registered and classes are monitored through online checks by concerned Chairpersons, QEC and Vice Chancellor office. The practical work in labs. and field were found satisfactory at Agriculture farm/new campus and farmer fields. In addition to the departmental labs. available at the city campus related to biological sciences are also supportive for lab. work. It was told that students are satisfied by the transport and sports facilities, co-curricular activities, scholarships and their counselling and career development. The committee observed that only a small warehouse is present but lacks greenhouse, glasshouse and lath house. However, Vice Chancellor in the exit meeting assured that Ghazi University is updating and modernizing the research labs. equipped with more sophisticated instruments and glasshouse construction will be completed in the coming year. He further added that the faculty of agricultural sciences will be shifted to the new campus as soon as possible after the security clearance from the district administration.



## Quality Assurance and Accreditation Awareness Seminars

Quality assurance and accreditation awareness seminars is a routine activity for initiation of accreditation process for any agriculture education institution. The main objective of these seminars is to stimulate and sensitize the stakeholders about the significance of accreditation process, its benefits and program evaluation criteria and standards used for the accreditation process. Awareness seminars are normally chaired either by the Vice Chancellor or any other senior officer of the institution and attended by majority of the faculty members and students. The council has conducted 59 quality assurance and accreditation awareness seminars so far including six seminars during 2020-21 at various agriculture education institutions in Pakistan. A summary of these seminars is given below:

### 1. Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan

Department	Agricultural Sciences
Date of Seminar	November 13, 2020
Venue	Conference Room
Number of Audience	150

### 2. UAF Sub Campus Toba Tek Singh

Department	Poultry Science
Date of Seminar	February 11, 2021
Venue	Conference Room
Number of Audience	90

### 3. University of Swabi

Departments	Plant Pathology, Soil Science
Date of Seminar	March 08, 2021
Venue	Committee Room
Number of Audience	70

#### 4. The University of Agriculture, Dera Ismail Khan

Departments	Agriculture, Animal Sciences, Forestry
Date of Seminar	June 07, 2021
Venue	Committee Room
Number of Audience	80

#### 5. Gomal University, Dera Ismail Khan

Departments	Animal Sciences, Fisheries & Aqua Culture, Poultry Sciences, Wildlife Management
Date of Seminar	June 08, 2021
Venue	Seminar Room
Number of Audience	100

#### 6. Hazara University, Mansehra

Departments	Agronomy, Horticulture, Environmental Science
Date of Seminar	June 16, 2021
Venue	Auditorium
Number of Audience	200



Quality Assurance and Accreditation Awareness Seminar at KFUEIT, Rahim Yar Khan



Quality Assurance and Accreditation Awareness Seminar at UAF Sub Campus Toba Tek Singh



Quality Assurance and Accreditation Awareness Seminar at University of Swabi



Quality Assurance and Accreditation Awareness Seminar at University of Agriculture, Dera Ismail Khan





Quality Assurance and Accreditation Awareness Seminar at Gomal University, Dera Ismail Khan



Quality Assurance and Accreditation Awareness Seminar at Hazara University, Mansehra



## Budget Utilization for FY 2020-21 and Proposed Allocation for FY 2021-22

Code	Object	Budget Utilization 2020-21	Proposed Budget Allocation 2021-22
71-1	Establishment Costs	4,071,963	6,202,219
71-20	a. Honorarium for Program Evaluators	644,000	1,000,000
	b Honorarium for Staff	365,000	1,000,000
72-10	TA/ DA (Accreditation visits; Council Meeting)	1,644,383	2,600,000
72-14	Transportation	175,555	300,000
72-15	Vehicle Expenses	9,600	25,000
72-2	Communication	25,007	60,000
72-31	Stationery & other supplies	47,953	100,000
72-32	Printing and Publications	54,300	500,000
72-37	Other Misc. Expenses (OE & RM)	90,092	300,000
72-43	Computer & Office equipment	0	300,000
72-44	Furniture & Fixture	0	50,000
72-50	Audit Expenses	38,650	50,000
72-60	Publicity & Advertisement	8,100	300,000
72-63	Meetings/Seminars	157,818	600,000
<b>Total</b>		<b>7,332,421</b> <b>7.332 million</b>	<b>13,387,219</b> <b>13.387 million</b>

### Budgetary Receipts for FY 2021-22

i.	Opening balance as of July 1, 2021	Rs. 7.240 million
ii.	Expected HEC Grant for FY 2021-22	Rs. 4.000 million
iii.	Accreditation Fee (Estimate)	Rs. 7.340 million
	<b>Total</b>	<b>Rs. 18.580 million</b>

## Proposed Work Plan for FY 2021-22

Sr. No	Institution	Discipline	Activity	Last visit and rating	Tentative visit schedule
1	KIU, Gilgit	Food Science and Technology	Accreditation visit	2018-19 Y <sub>1</sub>	Aug 2021
		Horticulture	Accreditation visit	2018-19 Y <sub>2</sub>	
		Forestry	Accreditation visit	2019-20 Zero visit	
		Human Nutrition & Dietetics	Zero visit		
		Environmental Science	Awareness seminar		
2	University of Swat	Forestry	Accreditation visit	2018-19 Zero visit	Aug 2021
3	Comsats University Abbottabad Campus	Environmental Science	Awareness seminar		Aug 2021
4	Women University Swabi	Food Science and Nutrition	Awareness seminar		Aug 2021
5	Women University Mardan	Human Nutrition & Dietetics	Awareness seminar		Aug 2021
6	Bacha Khan University, Charsadda	Human Nutrition & Dietetics	Awareness seminar		Aug 2021
7	The University of Agriculture, Peshawar	Human Nutrition	Awareness seminar		Aug 2021
8	Comsats University Sahiwal Campus	Food Science & Nutrition	Awareness seminar		Aug 2021
9	Comsats University Vehari Campus	Environmental Science	Awareness seminar		Aug 2021
10	Command College Sahiwal	Human Nutrition & Dietetics	Awareness seminar		Aug 2021
		Food Science			
11	The University of Lahore	Human Nutrition & Dietetics	Awareness seminar		Sep 2021
		Environmental Science			
12	University of Home Economics Lahore	Human Nutrition & Dietetics	Awareness seminar		Sep 2021
13	The Superior University, Lahore	Human Nutrition & Dietetics	Awareness seminar		Sep 2021
14	Afro-Asian Institute Lahore	Human Nutrition & Dietetics	Awareness seminar		Sep 2021

15	Bahauddin Zakariya University, Multan	Forestry	Accreditation visit	2017-18 X <sub>2</sub>	Sep 2021
		Plant Pathology	Accreditation visit	2017-18 X <sub>3</sub>	
		Poultry Science	Awareness seminar		
		Environmental Science			
16	Islamic International Institute of Sciences, Multan	Human Nutrition & Dietetics	Awareness seminar		Sep 2021
17	MNSUA, Multan	Human Nutrition & Dietetics	Awareness seminar		Sep 2021
		Poultry Science			
		Fisheries & Aquaculture			
18	The Islamia University of Bahawalpur	Horticulture	Accreditation visit	2017-18 X <sub>3</sub>	Sep 2021
		Animal Sciences	Awareness seminar		
19	CUVAS, Bahawalpur	Poultry Science	Awareness seminar		Sep 2021
		Animal Sciences			
20	PMAS Arid Agriculture University, Rawalpindi	Entomology	Accreditation visit	2017-18 X <sub>1</sub>	Oct 2021
		Soil Science	Accreditation visit	2017-18 W <sub>3</sub>	
		Agronomy	Accreditation visit	2017-18 X <sub>1</sub>	
		Plant Breeding and Genetics	Accreditation visit	2017-18 W <sub>3</sub>	
21	Iqra University Islamabad	Human Nutrition & Dietetics	Awareness seminar		Oct 2021
22	Mirpur University of Science & Technology	Animal Science	Awareness seminar		Oct 2021
		Poultry Science			
23	The University of Agriculture, Peshawar	Plant Breeding and Genetics	Accreditation visit	2016-17 W <sub>3</sub>	Oct 2021
		Agronomy	Accreditation visit	2016-17 X <sub>1</sub>	
		Soil Science	Accreditation visit	2016-17 X <sub>1</sub>	
		Entomology	Accreditation visit	2016-17 X <sub>3</sub>	
24	UAP-Amir Muhammad Khan Campus, Mardan	Agronomy	Accreditation visit	2016-17 Y <sub>3</sub>	Oct 2021
		Horticulture	Accreditation visit	2016-17 Y <sub>3</sub>	
		Soil Science	Accreditation visit	2016-17 Y <sub>2</sub>	

25	University of Agriculture, Faisalabad	Horticulture	Accreditation visit	2016-17 W <sub>2</sub>	Nov 2021
		Plant Breeding and Genetics	Accreditation visit	2016-17 W <sub>3</sub>	
		Agronomy	Accreditation visit	2016-17 X <sub>1</sub>	
		Soil and Environmental Sciences	Accreditation visit	2016-17 W <sub>3</sub>	
26	UAF Sub – Campus, Burewala	Entomology	Accreditation visit	2019-20 Zero visit	Nov 2021
		Food Science and Technology	Accreditation visit	2019-20 Zero visit	
		PBG	Accreditation visit	2019-20 Zero visit	
27	UAF Sub-Campus Toba Tek Singh	Animal Science	Zero visit	2020-21 Awareness seminar	Nov 2021
		Human Nutrition & Dietetics	Zero visit		
		Poultry Science	Zero visit		
28	University of Gujrat	Environmental Science	Awareness seminar		Nov 2021
29	Ghazi University D.G Khan	Environmental Science	Awareness seminar		Nov 2021
		Forestry			
		Plant Pathology			
30	Sindh Agriculture University, Tandojam	Plant Breeding and Genetics	Accreditation visit	2017-18 Y <sub>1</sub>	Dec 2021
		Food Science and Technology	Accreditation visit	2017-18 X <sub>1</sub>	
		Agronomy	Accreditation visit	2017-18 X <sub>3</sub>	
		Soil Science	Accreditation visit	2017-18 W <sub>3</sub>	
		Horticulture	Accreditation visit	2017-18 X <sub>3</sub>	
		Biotechnology	Accreditation visit	2016-17 Y <sub>2</sub>	
		Crop Physiology	Accreditation visit	2016-17 X <sub>3</sub>	
31	The University of Sindh, Jamshoro	Nutrition and Food Technology	Accreditation visit	2019-20 Zero visit	Dec 2021
		Environmental Sciences	Awareness seminar		
32	SAU, Tandojam Sub - Campus, Umerkot	Agronomy	Accreditation visit	2020-21 Zero visit	Dec 2021
		Plant Protection	Accreditation visit	2020-21 Zero visit	
		Soil Science	Accreditation visit	2020-21 Zero visit	



33	Shaheed Z.A. Bhutto Agriculture College, Dokri	Agronomy	Accreditation visit	2016-17 Z <sub>1</sub>	Dec 2021
		Horticulture	Accreditation visit	2016-17 Y <sub>3</sub>	
		Plant Breeding and Genetics	Accreditation visit	2016-17 Y <sub>3</sub>	
		Soil Science	Accreditation visit	2016-17 Y <sub>3</sub>	
34	PAQSJIMS, Gambat	Human Nutrition & Dietetics	Awareness seminar		Dec 2021
35	Ziauddin University, Karachi	Human Nutrition & Dietetics	Awareness seminar		Dec 2021
36	Jinnah University for Women, Karachi	Food Science and Technology	Accreditation visit	2017-18 X <sub>2</sub>	Dec 2021
37	Hamdard University, Karachi	Food Science and Technology	Accreditation visit	2020-21 Zero visit	Dec 2021
		Human Nutrition & Dietetics	Awareness seminar		
38	Muhammad Nawaz Shareef University of Agriculture, Multan	Agronomy	Accreditation visit	2017-18 X <sub>2</sub>	Jan 2022
		Entomology	Accreditation visit	2017-18 X <sub>2</sub>	
		Plant Breeding and Genetics	Accreditation visit	2017-18 X <sub>2</sub>	
		Soil Science	Accreditation visit	2017-18 X <sub>3</sub>	
		Food Science and Technology	Accreditation visit	2017-18 X <sub>3</sub>	
		Horticulture	Accreditation visit	2017-18 X <sub>3</sub>	
		Seed Science and Technology	Accreditation visit	2017-18 X <sub>3</sub>	
39	KFUEIT, Rahim Yar Khan	Food Science and Technology	Accreditation visit	2019-20 Zero visit	Jan 2022
		Agronomy	Zero visit	2020-21 Awareness seminar	
		Entomology			
		Horticulture			
		Environmental Sciences	Awareness seminar		
		Human Nutrition & Dietetics			
40	GCUF – Layyah Campus	Food Science and Technology	Accreditation visit	2017-18 Y <sub>2</sub>	Feb 2022
		Human Nutrition & Dietetics	Awareness seminar		
41	The University of Agriculture, D.I. Khan	Agriculture	Zero visit	2020-21 Awareness seminar	Feb 2022
		Animal Sciences	Zero visit		
		Forestry	Zero visit		

42	Gomal University, D.I. Khan	Horticulture	Accreditation visit	2016-17 X <sub>3</sub>	Feb 2022
		Poultry Science	Zero visit	2020-21 Awareness seminar	
		Fisheries & Aquaculture	Zero visit		
		Animal Sciences	Zero visit		
		Wildlife Management	Zero visit		
43	University of the Punjab, Lahore	Entomology	Accreditation visit	2017-18 X <sub>3</sub>	Mar 2022
		Agronomy	Accreditation visit	2020-21 Zero visit	
44	UVAS, Lahore	Human Nutrition & Dietetics	Awareness seminar		Mar 2022
		Environmental Science			
		Fisheries & Aquaculture			
		Poultry Science			
45	University of Central Punjab, Lahore	Food Science and Technology	Accreditation visit	2020-21 Zero visit	Mar 2022
46	Ghazi University, D.G. Khan	Plant Breeding and Genetics	Accreditation visit	2015-16 Y <sub>2</sub>	Mar 2022
		Soil Science	Accreditation visit	2015-16 Y <sub>1</sub>	
		Entomology	Accreditation visit	2015-16 Y <sub>2</sub>	
		Agronomy	Accreditation visit	2015-16 Y <sub>2</sub>	
		Horticulture	Accreditation visit	2015-16 Y <sub>3</sub>	
47	Lasbela University of Agriculture, Water and Marine Sciences, Uthal	Plant Breeding and Genetics	Accreditation visit	2016-17 Y <sub>2</sub>	May 2022
		Horticulture	Accreditation visit	2016-17 Y <sub>3</sub>	
		Agronomy	Accreditation visit	2016-17 X <sub>3</sub>	
		Entomology	Accreditation visit	2016-17 X <sub>3</sub>	
		Soil Science	Accreditation visit	2016-17 X <sub>3</sub>	
		Plant Pathology	Accreditation visit	2016-17 Y <sub>2</sub>	
48	University of Sargodha	Plant Pathology	Accreditation visit	2016-17 X <sub>3</sub>	May 2022
		Horticulture	Accreditation visit	2016-17 X <sub>3</sub>	
		Plant Breeding and Genetics	Accreditation visit	2016-17 X <sub>3</sub>	

49	University of Swabi	Climate Change	Zero visit	2020-21 Awareness seminar	Jun 2022
		Plant Pathology	Zero visit		
		Soil Science	Zero visit		
50	The University of Haripur	Forestry and Wildlife Management	Accreditation visit	2016-17 X <sub>2</sub>	Jun 2022
51	Abdul Wali Khan University, Mardan	Agronomy	Accreditation visit	2016-17 Y <sub>1</sub>	Jun 2022
		Horticulture	Accreditation visit	2016-17 Y <sub>2</sub>	
		Food Science and Technology	Accreditation visit	2016-17 Y <sub>3</sub>	
		Entomology	Accreditation visit	2017-18 Y <sub>2</sub>	
52	Hazara University, Mansehra	Agronomy	Zero visit	2020-21 Awareness seminar	Jun 2022
		Horticulture	Zero visit		
53	The University of Poonch Rawalakot	Human Nutrition & Dietetics	Awareness seminar		Jun 2022

# Annexure-I

## NAEAC Membership

<b>1-Prof. Dr. Ishtiaq Ahmad Rajwana</b> Chairperson NAEAC and Professor of Horticulture MNS - University of Agriculture, Multan	<b>2-Prof. Dr. Fauzia Yusuf Hafeez</b> Professor/Advisor (Biosciences) Department of Biosciences COMSATS University, Islamabad
<b>3-Mr. Nasir Shah</b> Director/In-Charge Quality Assurance Agency Higher Education Commission, Islamabad	<b>4-Dr. Syed Zaheer Hussain</b> Joint Scientific Adviser Ministry of Science and Technology Islamabad
<b>5-Dr. Tahira Yasmin</b> PSO/Registrar, PIASA National Agricultural Research Centre, Islamabad	<b>6-Prof. Dr. Javed Akhtar</b> Dean, Faculty of Agriculture University of Agriculture, Faisalabad
<b>7-Prof. Dr. Ahmad-Ur-Rahman Saljoqi</b> Dean, Faculty of Crop Protection Sciences The University of Agriculture, Peshawar	<b>8-Prof. Dr. Fayyaz ul Hassan</b> Dean, Faculty of Crop and Food Science, PMAS AAU, Rawalpindi
<b>9-Prof. Dr. Qamaruddin Chachar</b> Dean, Faculty of Crop Production Sindh Agriculture University, Tandojam	<b>10-Prof. Dr. Shafqat Saeed</b> Dean, Faculty of Agriculture & Environmental Sciences MNS-University of Agriculture, Multan
<b>11-Dr. Tamoor Khan</b> Dean, Faculty of Agriculture Lasbela University of Agriculture, Water and Marine Sciences, Uthal	<b>12-Nomination awaited</b> From The University of Agriculture, D.I. Khan
<b>13-Prof. Muhammad Aslam Niazi</b> Principal, Balochistan Agriculture College, Quetta	<b>14-Dr. Muhammad Zafar Iqbal</b> Director General (Research) Ayub Agriculture Research Institute, Faisalabad
<b>15-Dr. Juma Khan Tareen</b> Director General (Research) Agriculture Research Institute, Balochistan	<b>16-Dr. Abdul Rauf Khan</b> Director General (Research) Agriculture Research, Khyber Pakhtunkhwa
<b>17-Mr. Noor Muhammad Baloch</b> Director General (Research) Agriculture Research Institute Sindh, Tandojam	<b>18-Dr. Muhammad Anjum Ali</b> Director General Agriculture (Extension & AR), Agriculture Department, Punjab
<b>19-Mr. Malik Nasir</b> Director Planning, Agriculture Extension Agriculture, Livestock, Fisheries & Cooperative Department, Peshawar Government of Khyber Pakhtunkhwa	<b>20-Mr. Allah Warayo Rind</b> Additional Director General (Agriculture Extension) Agriculture, Supply and Prices Department, Government of Sindh
<b>21-Mr. Asif Majeed</b> President Evyol Group of Companies, Multan	<b>22-Ms. Nighat Jawwad</b> C.E.O Food Tech Solutions YUMZ (PK), Lahore
<b>23-Mr. Faisal Shahid</b> Managing Director Faisal Group of Industries, Multan	<b>24-Mr. Khawaja Muhammad Mohsin Masood</b> Director Mahmood Group of Industries, Kabirwala



## Annexure-II

### Minutes of 16<sup>th</sup> Meeting of NAEAC

The 16<sup>th</sup> Meeting of the National Agriculture Education Accreditation Council (NAEAC) was held on **December 28, 2020 at 9:30 A.M. in the Mural Hall of Higher Education Commission (HEC), H-9, Islamabad.** Prof. Dr. Ishtiaq A. Rajwana, Chairperson NAEAC, chaired the meeting attended by 16 members.

2. The meeting commenced with recitation from the Holy Quran. The Chair warmly welcomed all honorable members especially new ones and complimented them for their support and commitment to achieve the council objectives. He paid special tributes for members who participated in person in this meeting observing Covid-19 SOPs. The Chairperson highlighted the salient achievements of the council with future vision to improve its working. He emphasized the major challenges like financial sustainability of the council, augmenting the subject evaluator pool and revision of evaluation manual (Toolkit) incorporation of new subjects as mandated by 14<sup>th</sup> council meeting and hand holding of emerging HEIs for improving standards of education. He also raised his concern related to mushroom growth of agriculture DAI's in the country without proper infrastructure and formal approval of HEC.

3. After the introductory remarks by the Chair and introduction of all members, item-wise agenda of the meeting presented for consideration and approval. A summary of the decisions taken in the meeting is given below:

#### Agenda Item # 1: Confirmation of Minutes of 15<sup>th</sup> Council Meeting

4. Minutes of 15<sup>th</sup> meeting of the Council presented for confirmation of the council members. Prof. Dr. Qamaruddin Chachar proposed the minutes and Prof. Dr. Ahmad-Ur-Rahman Saljoqi and Dr. Tahira Yasmin seconded for approval. In the absence of any comments and objection, ***the minutes of the fifteenth Meeting of the Council were approved as presented.***

#### Agenda Item # 2: Overview of NAEAC's Operational Activities

5. The Chairperson presented the achievements of the council during the last financial year including 8 zero visits covering 17 degree programs, 15 on-site accreditation and evaluation visits

covering 34 degree programs by the Accreditation Inspection Committees (AICs), 2 review meetings with the Heads of Agriculture Education Institutions besides 5 quality assurance and accreditation awareness seminars etc. In total 34 degree programs of 10 institutions were evaluated and their rating was shared with honorable council members.

### **Agenda Item # 3: Consideration and Approval of the External Evaluation/ Accreditation Ratings of Agriculture Degree Programs Evaluated During FY 2019-20**

**Decision:** *The Council members examined the evaluation ratings of 34 degree programs in 10 institutions reviewed by NAEAC during 2019-20 and approved the ratings as recommended.*

### **Agenda Item # 4: Review Meetings to follow the Implementation of AIC Recommendations**

6. The Chairperson, NAEAC briefed the Council on the purpose and objectives of the Review Meeting and shared that two review meetings covering nine degree programs were conducted during 2019-20. The recommendations of the review meetings were shared with the honorable members.

**Decision:** *Members acknowledged the review meeting process initiated by NAEAC since it involves concerned authorities of the host institutions and the Council to discuss the issue in detail that need improvement.*

### **Agenda Item # 5: Proposed Annual Work Plan for FY- 2020-21**

7. Chairperson, NAEAC presented annual work plan for FY 2020-21 consisting of four major activities of accreditation process covering external evaluation and assessment of 71 degree programs including zero visits, formal accreditation visits, follow-up visits and 2<sup>nd</sup> round visits. In addition, three review meetings, eight awareness seminars, four training workshops and two council meetings are also planned for FY 2020-21. In all, the council plans to undertake at least 45 visits of the concerned institutions subject to the COVID 19 situation.

**Decision:** *The Council members endorsed and approved the work plan activities for FY 2020-21.*

### **Agenda Item No #6: Proposed Budget Allocations for FY- 2020-21**

8. The Chair presented estimated budget 2020-21 as per operational work plan and budget estimates of Rs. 9,865,850 (Ninety Eight Lac Sixty Five Thousand Eight Hundred and Fifty Rupees Only) sub divided into different heads including establishment cost of Rs. 4.2 Million. Dr Nadia Tahir, Managing Director QAA, HEC suggested to initiate new activities like review/development of curriculum, training of focal persons and evaluators/experts in the newly added programs in consultation with QAA and NAHE. She also emphasized to develop endowment fund for future sustainability of the council.

**Decision:** *The Council members endorsed the proposed budget allocation for the FY 2020-21*

### **Agenda Item No #7: Consideration and Approval of Essential Staff Posts in NAEAC on Contract basis**

9. The Chairperson presented the detail of essential staff required in the NAEAC Secretariat and also highlighted the observation of internal audit team for not having mentioned/approved sanctioned posts in the bylaws of the council. The Chairperson asked for the ex-post facto approval of seven existing “i) Secretary/Office Manager ii) Deputy Director Coordination iii) IT Coordinator iv) Assistant Director Admin & Finance v) Assistant Director Coordination vi) Software Engineer/Web Developer vii) Dispatch Rider/Office Attendant” and two new posts (Registration Officer/Account Officer and Dispatch Rider/Office Attendant). Honorable members pointed out that for the betterment of council staff, a unified structure of all five HEC established councils should be in place. However keeping in view the present audit observation, the request of NAEAC may be approved till new system is permitted by HEC.

**Decision:** *The Council members agreed with the ex-post facto approval of seven posts and creation of two new posts as per actual need of the NAEAC till a unified service structure for all councils is notified by HEC.*

### **Agenda Item No #8: Consideration and Approval to Receive Advance Payment of Accreditation Fee**

10. The Chairperson highlighted the current practice of the council in collecting accreditation fee

from HEIs after on-site visits. Some HEIs are not cooperating with the council for smooth payment of accreditation fee even after repeated reminder emails and calls. In contrast other HEC established councils are collecting accreditation fee in advance. It is submitted that NAEAC may be allowed to collect accreditation fee from HEIs prior to the visits with effect from January 2021. This will help to carryout smooth accreditation activities in efficient manners.

**Decision:** *The Council members agreed with the proposal to collect accreditation fee in advance with effect from January 2021.*

### **Agenda Item No # 9: Consideration and Approval for Review Meetings Fee**

11. The Council has conducted 14 review meetings so far in 14 institutions free of charge. For this, the Council bears all expenses without charging any fee to the institution. It is proposed that an amount of Rs.50,000/- per visit may be charged from the host institutions for arrangement and organization of review meetings.

**Decision:** *The Council members approved Rs. 50,000 per visit for Review Meeting as proposed.*

### **Agenda Item No # 10: Planning for Optimization of Student Intake in Agriculture DAI's of Khyber Pakhtunkhwa**

12. The Chairperson emphasized the observations raised by participants during the visit to University of Swabi, Khyber Pakhtunkhwa related to several institutions in the radius of 100 km offering undergraduate agriculture education and the difficulties being faced for the intake of students and sustainability of the programs. A detailed presentation keeping in view the Khyber Pakhtunkhwa situation was presented/shared with the honorable members. It was also noticed that this situation is not only related to Khyber Pakhtunkhwa rather it applies to whole country.

**Decision:** *The Council members mandated the NAEAC to hold a series of meeting of the Vice Chancellors initiating from Khyber Pakhtunkhwa and come up with some acceptable solutions for the betterment of quality education in agriculture sector.*



### **Agenda Item No # 11: Approval of Honorarium for Academic Audit of NAEAC**

13. As per directive of HEC, Prof. Dr. Aman Ullah Malik, Director Institute of Horticultural Sciences, University of Agriculture, Faisalabad was requested by QAA to conduct academic performance audit of NAEAC since its inception. The council is of the opinion that it was time consuming and exhaustive exercise and the expert deserve respectable honorarium.

**Decision:** *After discussion MD, QAA suggested that this exercise has been carried out for all the Councils on behalf of HEC and the honorarium will also be paid by HEC as per rules.*

### **Agenda Item No # 12: Publication of Quarterly E-newsletter**

14. The honorable members were presented hard copies of e-newsletter published by council so far. First volume having four issues and 2<sup>nd</sup> volume having one issue have been released covering all the activities carried during July 2019 to September 2020.

**Decision:** *The council members appreciated the efforts of the NAEAC Secretariat and suggested to continue this activity on regular basis with improved features to make it more professional.*

### **Agenda Item No # 13: Ranking of Agriculture Degree Programs**

15. NAEAC is mandated to carryout accreditation of agricultural institutions and their departments, faculties and disciplines by giving them appropriate ratings of agriculture degree programs. As per NAEAC by-laws accreditation is a mandatory process for all relevant academic programs offered by public and private sector institutions. The incentive for obtaining accreditation enhance recognition of such programs in the agriculture community and for prospective students.

16. After thorough discussion keeping in view the merits and demerits of the ranking, the honorable members suggested not to rank the universities, departments rather rating should be publically announced for general community and in particular for students and their parents.

**Decision:** *The honorable members agreed to publish rating of the different degree programs on website as well as on print media.*

### **Agenda Item No # 14: Consideration and Approval for the Initiation of Annual Evaluation (ACR) of NAEAC Employees**

17. The Standard Operating Procedure (SOP) of the public sector organizations is to evaluate the performance of employees (Contract/ Adhoc /Regular) annually in form of Annual Confidential Report (ACR) which is maintained to promote, acknowledge or measure the overall suitability of employees for further promotion, award of bonus, honorarium etc. This matter was considered in the 14<sup>th</sup> council meeting under agenda item no.18. As per decision, a committee comprising of i) Dr. Amjad Hussain, Director R&D, HEC ii) Ms. Humaira Quddus, Dy. Director QAA, HEC and iii) Dr. Abdul Ghaffar, Secretary NAEAC was constituted to review the proposed ACR form. The committee recommended to opt the HEC ACR forms for the council employees with some modifications.

**Decision:** *The honorable members approved the suggested ACR form and maintenance of ACR of each NAEAC employee.*

### **Agenda Item No # 15: Rationalization of Accreditation Duration**

18. NAEAC is accrediting and rating the degree programs as per its byelaws and SOPs for undergraduate programs in DAI's as W (80-100%), X (65-79%), Y (50-64%) and Z (40-49%). Currently council is accrediting the programs for four years irrespective of rankings. However, keeping in view the closeness of X3 to Y1 and X1 to W3, it is proposed that next round duration of accreditation of X3, X2 and X1 & W category programs may have the duration as 2, 3 and 4 years, respectively.

**Decision:** *The honorable members agreed with the proposal.*

### **Agenda Item No # 16: Request from Dean, Faculty of Crop and Food Science, PMAS AAUR regarding the limits of credit hours of B.Sc. (Hons.) Agriculture Degree Programs**

19. Prof. Dr. Fayyaz ul Hassan, Dean, Faculty of Crop and Food Science, PMAS Arid Agriculture University, Rawalpindi submitted his concerns related to total credit hours required for graduation in agriculture. The Chairperson emphasized the issue regarding maximum and minimum credit hours of

B.Sc. (Hons.) Agriculture Degree Programs. At present some 136-140 credit hours are being offered while prior to this scheme credit hours range was 170-190. Reduction of credit hours parallel to business subjects left a gap of basic and diversified information on subject. The honorable members had a detailed discussions on the issue and majority members were of the opinion that deciding the limit of credit hours for a degree program is not under the purview of NAEAC. However, NAEAC may write a letter with comments to the convener of undergraduate policy and if issue is not settled then may be forwarded to HEC for consideration at appropriate forum.

**Decision:** *The honorable members agreed with the discussion and decided that NAEAC may write a letter with comments to the convener of undergraduate policy and if issue is not settled then may be forwarded to HEC for consideration at appropriate forum.*

**Agenda Item No # 17: Request from Dean, Faculty of Crop Production, SAU, Tandojam regarding Nomenclature of Biotechnology Degree Program in Agriculture DAI's**

20. Prof. Dr. Qamaruddin Chachar, Dean Faculty of Crop Production, SAU, Tandojam has requested that some of the Agriculture DAI's are offering B.Sc. and M.Sc. degree program in Agricultural Biotechnology and some are offering as Biotechnology. It is requested that the nomenclature of degree should be same i.e. Agricultural Biotechnology at least in all Agriculture DAI's. Honorable members discussed the matter at large and suggested the council to write letter to relevant DAI's with suggestion to write Agriculture Biotechnology on the degrees where applicable.

**Decision:** *The honorable members advised the council to write letter to relevant DAI's with suggestion to write Agricultural Biotechnology on the degrees where applicable.*

**Agenda Item No # 18: Request from Dean, Faculty of Agriculture Sciences, University of Haripur regarding the nomenclature of Bachelors and Masters Programs in Agriculture**

21. Prof. Dr. Abid Farid, Dean, Faculty of Agriculture Sciences, University of Haripur has requested Chairperson NAEAC raising issue of variable nomenclature of Bachelors and Masters Programs in Agriculture DAI's. It was mentioned that Bachelor and Master Degree programs in agriculture was

named B.Sc. (Hons.) and M.Sc. (Hons.) as 16-year and 18-year programs. As a matter of fact, nomenclature of BS and MS are global standards for 16-year and 18-year programs respectively. The Chairperson, NAEAC clarified that HEC has already equated the B.Sc. (Hons.) to BS and M.Sc. (Hons.) to MS. Hence the issue stands already resolved.

**Decision:** *The honorable members agreed with the discussion and suggested to follow the HEC decision in this regard to avoid problem in future for degree attestation.*

### **Agenda Item No # 19: Approval for Mobile Charges to NAEAC Employees**

22. The Chairperson, NAEAC emphasized the frequent contacts required for the arrangements and follow up for various activities of the visits in off time. Hence, following Mobile Charges are recommended:

<b>S. No</b>	<b>BPS</b>	<b>Amount (Rs.)</b>
i)	20 and above	2,000/ Month
ii)	18-19	1,000/ Month
iii)	16-17	500/ Month

23. After detailed discussions it was conditionally approved that if the precedence exists in any other council then may be implemented otherwise not recommended. However, Chairperson can add this allowance in the salary.

**Decision:** *The Honorable members decided that if the precedent exists in any other council then may be implemented.*

### **Agenda Item No # 20: Inauguration of Registration of Agriculture Graduates/ Professional/ Fellows**

24. As per decision of the 14<sup>th</sup> meeting of council, NAEAC has prepared Agriculture Personal Registration System (APRS) for registration of agriculture graduates/ professional/ fellows. The VCs of University of Agriculture Faisalabad, Lasbela University of Agriculture, Water & Marine Sciences, Uthal, Sindh Agriculture University, Tandojam, MNS University, Multan and University of Agriculture, D.I. Khan were asked to join the online inauguration of APRS ceremony. The NAEAC Secretariat had



prepared the system for individual student's registration following the auto system guidelines. However, during the discussion the Central Registration System involving the HEIs was recommended. Furthermore the fee of Rs. 500 was recommended to charge during final year (7<sup>th</sup> semester) instead at the time of admission at university level. The fee so collected by HEIs along with complete data for registration of students will be submitted to NAEAC.

***Decision: After thorough online discussion at VCs/representatives level, it was decided to involve the Universities for getting the students data and fee collection from students. The information format will be given to university authorities who will provide all required information along with the fee of final year graduating students. NAEAC will prepare the Registration Card after receiving the student's registration information and fee. The prepared Card will be provided to the respective HEIs. The students will get the card along with the degree from their parent institutions.***

## List of Participants of 16<sup>th</sup> Council Meeting held on December 28, 2020

1. Prof. Dr. Ishtiaq Ahmad Rajwana, Chairperson NAEAC/Pro-VC, MNSUA, Multan
2. Dr. Nadia Tahir, Managing Director, QAA, HEC, Islamabad
3. Dr. Tahira Yasmin, PSO/registrar, PIASA, NARC, Islamabad
4. Prof. Dr. Javed Akhtar, Dean, Faculty of Agriculture, University of Agriculture, Faisalabad
5. Prof. Dr. Ahmad-Ur-Rahman Saljoqi, Dean, Faculty of Crop Protection Sciences, UAP
6. Prof. Dr. Qamaruddin Chachar, Dean, Faculty of Crop Production, SAU, Tandojam
7. Prof. Dr. Shafqat Saeed, Dean, Faculty of Agriculture & Env. Sciences, MNSUA, Multan
8. Dr. Muhammad Rashid, Dean, Faculty of Agriculture, LUAWMS, Uthal
9. Prof. Dr. Ejaz Ahmad Khan, Project Director, The University Agriculture, D. I. Khan
10. Prof. Muhammad Aslam Niazi, Principal, Balochistan Agriculture College, Quetta
11. Dr. Muhammad Zafar Iqbal, Director General, Ayub Agriculture Research Institute, Faisalabad
12. Mr. Noor Muhammad Baloch, Director General, Agriculture Research Sindh, Tandojam
13. Mr. Khawaja Muhammad Mohsin Masood, Director, Mahmood Group of Industries, Kabirwala
14. Dr. Muhammad Tariq Masood, Joint Scientific Adviser (IL), Ministry of Science & Technology

### Proxy:

15. Dr. Juma Khan Tareen, Director General, Agriculture Research, Baluchistan
16. Dr. Abdul Rauf Khan, Director General, Agriculture Research, Khyber Pakhtunkhwa

### Apologies:

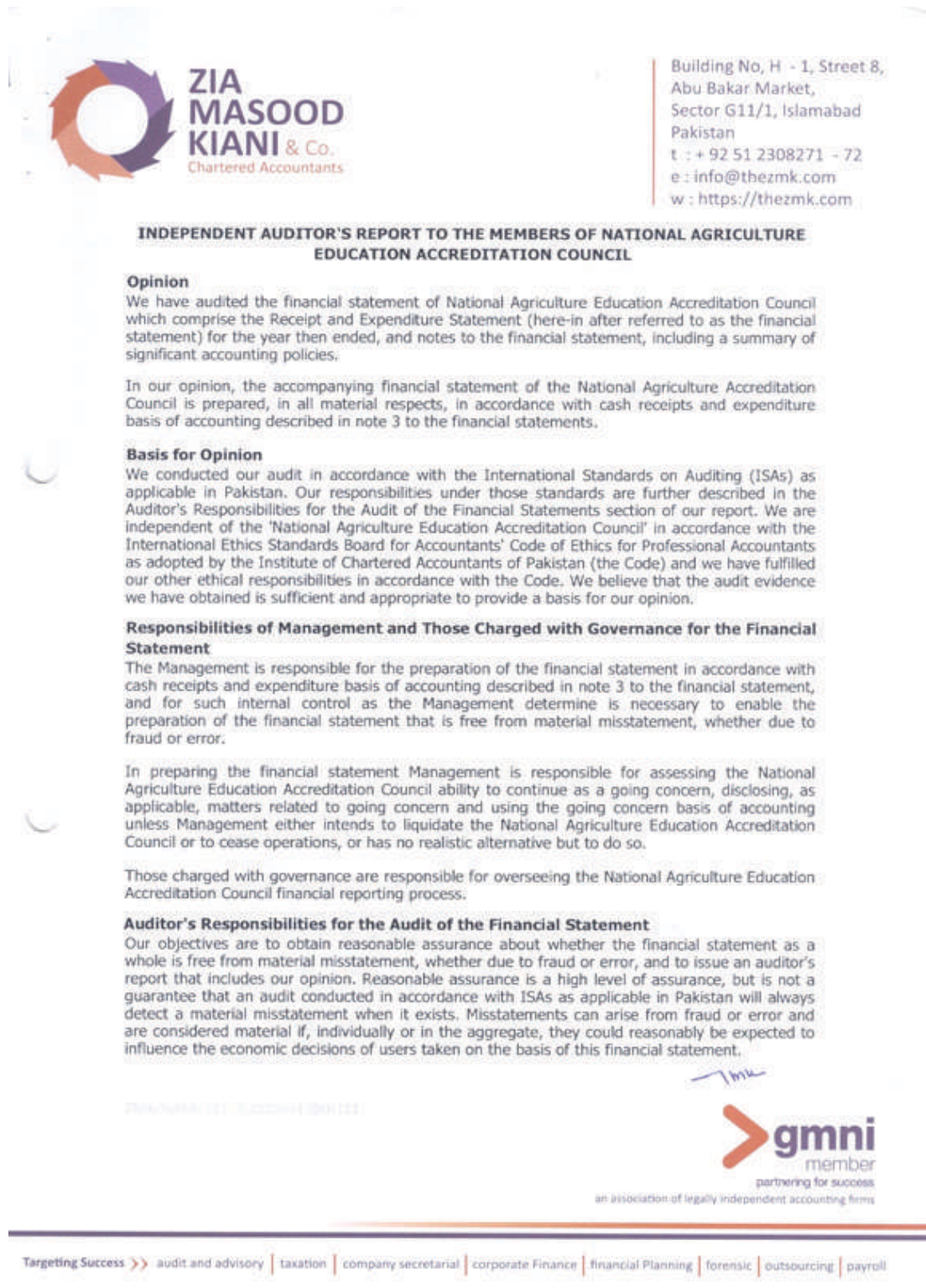
1. Prof. Dr. Fayyaz ul Hassan, Dean, Faculty of Crop and Food Science, AAU, Rawalpindi
2. Mr. Asif Majeed, President, Evyol Group of Companies, Multan
3. Ms. Nighat Jawwad, C.E.O, Food Tech Solutions YUMZ (PK), Lahore
4. Mr. Faisal Shahid, Managing Director, Faisal Group of Industries, Multan

### NAEAC Secretariat Staff:

1. Dr. Abdul Ghaffar, Secretary
2. Mr. Abdullah, IT Coordinator
3. Mr. Kausar Saeed Awan, Deputy Director, Coordination
4. Mr. Malik Arshad, Assistant Director, Admin & Finance
5. Mr. Muhammad Faraz Afzal, Assistant Director Coordination
6. Mr. Zafar Ali, Software Engineer/Web Developer
7. Mr. Muhammad Shafqat, Dispatch Rider

## Annexure-III

## Annual Audit Report of NAEAC, 2020-21





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

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

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

ISLAMABAD

Date: 03/08/2021

*Zia Masood Kiani & Co.*

ZIA MASOOD KIANI & CO

(Chartered Accountants)

Engagement Partner

ZIA ULLAH-FCA

THE NATIONAL AGRICULTURE EDUCATION ACCREDITATION COUNCIL



an association of legally independent accounting firms



**NATIONAL AGRICULTURE EDUCATION  
ACCREDITATION COUNCIL**

**RECEIPTS AND EXPENDITURE STATEMENT  
FOR THE YEAR ENDED JUNE 30, 2021**

	Note	2021 (Rupees)
<b>Receipts</b>	4	9,790,000
<b>Expenditure</b>		
Establishment costs		4,071,963
Honorarium for program evaluators		644,000
Other benefits		365,000
TA/DA		1,644,383
Transportation		175,555
Vehicle expenses		9,600
Communication		25,007
Stationery and other supplies		47,953
Printing and publications		54,300
Miscellaneous expenses		90,092
Audit expenses		38,650
Publicity and advertisement		8,100
Meeting and seminars		157,818
		7,332,421
<b>Excess of Receipts over Expenditure</b>		<b>2,457,579</b>

The annexed notes from 1 to 8 form an integral part of these financial statements.

  
CHAIRPERSON  
Prof Dr. Ishtiaq A. Rajwana

  
ASSISTANT DIRECTOR ADMIN & FINANCE  
Malik Arshad

**NATIONAL AGRICULTURE EDUCATION  
ACCREDITATION COUNCIL**  
NOTES TO THE RECEIPTS AND EXPENDITURE STATEMENT  
FOR THE YEAR ENDED JUNE 30, 2021

Note 1

**Council and its Operations**

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

Note 2

**Statement of Compliance**

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

Note 3

**Basis Of Preparation**

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

Note 4

**Receipts**

	Note	2021 Rupees
Annual grant from Higher Education Commission		4,000,000
Awareness Seminar & Review Meeting fee	4.1	350,000
Accreditation & Zero/Pre-accreditation fee	4.2	5,440,000
		<u>9,790,000</u>
<b>4.1 Awareness Seminar &amp; Review Meeting fee</b>		
SAU-Tandojam Umerkot Campus		50,000
University of Swabi		50,000
UAF Sub-Campus Toba Tek Singh		50,000
Hazara University, Mansehra		50,000
SZABAC, Dokri		50,000
Abdul Wali Khan University Mardan		50,000
Ghazi University, D.G. Khan		50,000
		<u>350,000</u>



**NATIONAL AGRICULTURE EDUCATION ACCREDITATION COUNCIL**
*Notes to the Receipts and Expenditures Statements*

Page 3 of 4

*Note 4, Receipts - Continued..*
**4.2 Accreditation & Zero/Pre-accreditation fee**

GCU, Faisalabad	80,000
University of Sargodha	320,000
University of Management and Technology	250,000
Minhaj University, Lahore	250,000
UAF Sub-Campus Depalpur Okara	320,000
University of Agriculture, Faisalabad	160,000
GCUF Sahiwal Campus	200,000
Pakistan Forest Institute, Peshawar	80,000
PMAS AAUR	160,000
University of Haripur	80,000
The University of Agriculture, Peshawar	400,000
University of Sawabi	400,000
MNSUA, Multan	320,000
Karachi University	240,000
The Islamia University, Bahawalpur	320,000
Balochistan Agriculture College, Quetta	480,000
BZU Bahadar Campus, Layyah	240,000
University of Poonch, Rawalakot	160,000
Hazara University, Mansehra	80,000
University of Central Punjab, Lahore	250,000
IAGS, Lahore	80,000
Hamdard University, Karachi	250,000
SAU-Tandojam Umerkot Campus	240,000
Shaheed Benazir Bhutto University, Sheringal	80,000

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5,440,000



**NATIONAL AGRICULTURE EDUCATION ACCREDITATION COUNCIL**
*Notes to the Receipts and Expenditures Statements*

Page 4 of 4

Note 5

**Variance Analysis**

	Budgeted	Actual	Variance	
	Rupees	Rupees	Rupees	Percentage
Establishment costs	4,200,850	4,071,963	128,887	3%
Honorarium for program evaluators	800,000	644,000	156,000	20%
Other benefits	500,000	365,000	135,000	27%
TA/DA	2,400,000	1,644,383	755,617	31%
Transportation	200,000	175,555	24,445	12%
Vehicle expenses	25,000	9,600	15,400	62%
Communication	60,000	25,007	34,993	58%
Stationery and other supplies	80,000	47,953	32,047	40%
Printing and publications	300,000	54,300	245,700	82%
Miscellaneous expenses	200,000	90,092	109,908	55%
Computer and office equipment	200,000	-	200,000	100%
Furniture and fixtures	50,000	-	50,000	100%
Audit expenses	50,000	38,650	11,350	23%
Publicity and advertisement	300,000	8,100	291,900	97%
Meetings / seminars	500,000	157,818	342,182	68%
	<u>9,865,850</u>	<u>7,332,421</u>	<u>2,533,429</u>	

Note 6

**Cash and Bank**

	2021
	Note Rupees
Cash in hand	14,691
Cash at bank	
- Current account	<u>7,240,552</u>
	<u>7,255,243</u>

Note 7

**Receivables on behalf of Council**

There is a receivable of Rs. 125,000/- from Dadabhoy Institute of Higher Education, Karachi as on June 30, 2021. This receivable is due with respect to 50% Zero/pre-accreditation fee.

Note 8

**General**

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

8.2 These financial statements were authorized for issue by council on \_\_\_\_\_

**CHAIRPERSON**  
Prof Dr. Ishtiaq A. Rajwana

**ASSISTANT DIRECTOR ADMIN & FINANCE**  
Malik Arshad







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## Annexure-V

### Picture Gallery



Visit of AIC's to University of Agriculture, Faisalabad



Visit of AIC's to UAF Sub Campus Depalpur, Okara



Visit of AIC's to University of Agriculture, Peshawar





Visit of AIC to Pakistan Forest Institute, Peshawar



Visit of AIC to GCUF-Sahiwal Campus



Visit of AIC's to Arid Agriculture University, Rawalpindi





Visit of AIC's to University of Swabi



Visit of AIC's to MNS-University of Agriculture, Multan



Visit of AIC's to the Islamia University of Bahawalpur





Visit of AIC's to Bacha Khan University, Charsadda



Visit of AIC's to BZU Sub Campus Bahadur, Layyah



Visit of AIC's to Balochistan Agriculture College, Quetta





Visit of AIC's to University of Sargodha



Visit of AIC's to University of Poonch Rawalakot



Visit of AIC to Hazara University Mansehra





Visit of AIC to University of Central Punjab, Lahore



Visit of AIC to University of the Punjab, Lahore



Visit of AIC to Hamdard University, Karachi





Visit of AIC to SBB University Sheringal, Dir



Review Meeting at Shaheed Zulfikar Ali Bhutto Agriculture College, Dokri



Review Meeting at Abdul Wali Khan University, Mardan





Review Meeting at Ghazi University, D.G. Khan



Quality Assurance and Accreditation Awareness Seminar at KFUEIT, Rahim Yar Khan



Quality Assurance and Accreditation Awareness Seminar at University of Swabi





Quality Assurance and Accreditation Awareness Seminar at University of Agriculture, D.I. Khan



Quality Assurance and Accreditation Awareness Seminar at Gomal University, D.I. Khan



16<sup>th</sup> Council Meeting of NAEAC

