



## AIC Report

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**Department of Plant Breeding & Genetics**  
**Muhammad Nawaz Sharif University of Agriculture, Multan**

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**Muhammad Nawaz Sharif University of Agriculture, Multan  
Standards and Criteria for Agriculture Degree Program Evaluation  
PBG B.Sc (Hons) 2014-15**

| Sr. No.                        | Criteria                              | Points Assigned | Points Awarded |
|--------------------------------|---------------------------------------|-----------------|----------------|
| <b>Major Criteria</b>          |                                       |                 |                |
| 1                              | Strength and Quality of Faculty       | 250             | 150            |
| 2                              | Curriculum Design and Development     | 150             | 125            |
| 3                              | Infrastructure and Learning Resources | 200             | 125            |
| 4                              | Students Support and progression      | 100             | 55             |
| <b>Sub - Total (a)</b>         |                                       | <b>700</b>      | <b>455</b>     |
| <b>Minor Criteria</b>          |                                       |                 |                |
| 5                              | Research and Consultancy Activities   | 150             | 60             |
| 6                              | Governance and Leadership             | 100             | 50             |
| 7                              | Recent Innovations and Best practices | 50              | 25             |
| <b>Sub - Total (b)</b>         |                                       | <b>300</b>      | <b>135</b>     |
| <b>Grand Total (a+b)</b>       |                                       | <b>1000</b>     | <b>590</b>     |
| (Five hundred and ninety only) |                                       |                 | <b>59%</b>     |

\_\_\_\_\_  
Name and Designation

\_\_\_\_\_  
Signature of Program Evaluator

## **EXECUTIVE SUMMARY**

The under-graduate classes of newly established Muhammad Nawaz Sharif University of Agriculture were started at the Bahauddin Zakariya University campus on 7<sup>th</sup> August, 2012. Now the university has been shifted to his newly established campus situated at old Shujabad road Multan on 13<sup>th</sup> January, 2014. Currently, specialization is being offered in four major disciplines including Agronomy, Plant Breeding and Genetics, Entomology and Soil Science.

Currently, five young faculty members are serving in the discipline of Plant Breeding and Genetics on contractual basis with minimum teaching experience. Out of these five, one is Assistant Professor and rest are lecturers.

Labs., agriculture farm, greenhouses and other teaching and learning facilities need substantial improvements. Class room facilities and faculty offices are also inadequate. Text books are available but new additions of text books may be purchased. The PBG discipline of MNSUA has adopted HEC recommended curriculum and has designed scheme of studies accordingly. However, there is a need to review the scheme of studies from time to time.

The discipline has offered the major without the availability of statutory bodies such as Board of studies and Board of faculty. Computer facility is inadequate for students and faculty members. Agriculture farm and departmental laboratories needs to be developed. However, local research institutions are facilitating the students for Lab. activities. Both organizations are facilitating the students in conducting their basic research work. Transport facility for students and teachers pick and drop is available but less than required.

The AIC on PBG assessed that the discipline does not meet some of the major external evaluation criteria for accreditation and has been assigned score of 59 percent with evaluation rating in the category of 'Y2'. This evaluation rating implies a revisit to the degree program offered by MNSUA with in a period of one year.

## **INTRODUCTION**

Muhammad Nawaz Sharif University of Agriculture, Multan was visited on March 19, 2015 by Accreditation Inspection Committee (AIC) for assessment of degree programs B.Sc. (Hons.) Agriculture, Plant Breeding and Genetics.

The under graduate classes of newly established Muhammad Nawaz Sharif University of Agriculture was started at the Bahauddin Zakariya Univeraity campus on 7<sup>th</sup> August, 2012. Now the university has been shifted to his newly established campus situated at old Shujabad road Multan on 13<sup>th</sup> January, 2014. Currently, specialization is being offered in four major disciplines including Agronomy, Plant Breeding and Genetics, Entomology and Soil Science. The Department of Plant Breeding and Genetics started B.Sc. (Hons) PB&G classes in 2014 and now 6th semester is in progress.

## **CRITERION WISE ANALYSIS**

### **Strength and Quality of Faculty**

Existing faculty is newly appointed and most junior which consists of just one Assistant Professor and four Lecturers. Faculty does not have teaching or research experience. All the teachers' appointments are on contractual basis for three years. Presently specialization in four disciplines Agronomy, Plant Breeding and Genetics, Entomology and Soil Science is being offered on the campus. Faculty members are young and energetic they will put maximum efforts for the advancement of research and teaching in the institute. However, more senior faculty members needed to be appointed for strengthening the department and proper imparting of quality education and modern research technology. The teacher student ratio is 1:41 which is higher than the desired (1:20) ratio. Moreover, no faculty development program for new teachers is in progress.

### **Infrastructure and learning resources**

There is inadequate infrastructure for teaching and research activities. There are only two class room for fourth and sixth semester. This facility is sufficient for the current semester but not enough to tackle the future needs of the classes. For undergraduate students, the laboratory facilities are inadequate. There is only one laboratory with the capacity of 25 students is available. No common room facility is available to the male or female students, where they can work peacefully after the lectures or while performing research work independently.

The teaching helping tools like multimedia is not available but student's complaints for the shortage of multimedia were noted. The computers facilities available for students within the department are very low and this facility is not available in the faculty rooms. No online access is available to digital library.

There are about 150 books in the library but the numbers should be increased in order to meet future needs of the students. Pakistan journal of botany and international journal of agriculture and biology were available in the form of hard copy.

Hostel accommodation and play grounds facilities are not available to male and female students. Currently, Female students are residing at Bahauddin Zakariya University girls hostels, however administration trying to own a hostel for girls on rent basis. Transport facility is available but not sufficient for the students.

Agriculture farm has not developed till now for practical and research work, though students using these facilities at Central Cotton Research Institute and Cotton Research Station situated very near to the university.

## **SWOT Analysis**

### **Major Strength**

- Young teaching faculty of five hardworking members.

### **Major Weaknesses**

- Grossly insufficient qualified senior (professor & associate professor) and experienced teaching faculty.
- Induction of faculty on contract basis on purely temporary basis.
- Absence of well-equipped PBG Lab. for undergraduate teaching as well as research farm and greenhouses etc.
- Nonexistence of statutory bodies such as Board of Studies and Board of Faculty.
- Inadequate and unfurnished offices, lecture rooms, etc.
- Limited IT facilities, reference material and access to HEC digital library.
- Limited facilities for co-curricular activities including out-door and indoor sports.

### **Major Opportunities**

- Muhammad Nawaz Sharif University of Agriculture is established in the highly fertile area of southern Punjab.
- The discipline can arrange training to the local farmers which will be helpful to increase the yield of their crops.
- The students have good opportunity of employment in seed companies and public sector research institutions.

### **Major Threats**

- Provision of all basic and latest facilities is necessary, without which quality education, progress and prosperity of area will be stagnant.
- The student of the southern Punjab will seek admission in other institutions for quality education.

### **Actionable Recommendations**

- Immediate induction of highly qualified, experienced and regular faculty.
- Establishment of at least one (preferably two) functional Labs of PBG.
- Creation of statutory bodies of the discipline.
- Provision of IT facilities, access to HEC digital library, textbooks and reference material for the Department and Agronomy discipline as well.
- Availability of experimental research farm with farm machinery and implements.
- Provision of at least three class rooms, seminar room, committee/conference room.
- Recreational as well as indoor/outdoor sports facilities for students.
- Completion of faculty pyramid i.e. Appointment of Professor/Associate Professor as soon as possible as per recommended of HEC 1:1:2:2.
- Infrastructure strengthening and up gradation like library, labs. Farm research area should be focused.

- Allotment of “major” after 4<sup>th</sup> semester should be done purely on merit and as per student choice. Guidance and counselling to students should be provided in this regards by senior faculty.
- Provision of scholarship facilities should be advertised at prominent places for information of students.
- Rules/regulations related to admission till the completion of degree should be made available to students and be followed in letter and spirit.
- Field visits should be made part of practical as university does not have proper research farm.

#### **Final Recommendations**

The team unanimously recommended that B.Sc. (Hons) Agri. Plant Breeding and Genetics degree program should be evaluated in the category of “Y2” with aggregate score of 59 percent and is deferred for accreditation till revisit and re-evaluation after a period of one year.

## Annexure-I

### 1.1: Strength of Faculty

| Faculty Strength (Number) | Faculty Qualification |         | Faculty Positions |                |                 |           | Teacher/Student Ratio |
|---------------------------|-----------------------|---------|-------------------|----------------|-----------------|-----------|-----------------------|
|                           | PhD                   | Non PhD | Prof.             | Associate Prof | Assistant Prof. | Lecturers |                       |
| 5                         | 1                     | 4       | 0                 | 0              | 1               | 4         | 1:4                   |

## Annexure-II

### 3.1: Capacity of each laboratory with list of equipment in each lab with brief (one line) specifications.

#### Laboratory, Plant Breeding & Genetics

Capacity: 30 students

| Sr.No | Name of equipment       | Quantity | Specification  |
|-------|-------------------------|----------|--|
| 1     | Compound microscope     | 1        | LABOMED USA  |
| 2     | Microscope (monocular)  | 1        | VICKERS  |
| 3     | Microscope              | 1        | XSB-03   |
| 4     | Weight balance          | 1        | SARTORIUS  |
| 5     | Analytical balance      | 1        | LIBROR   |
| 6     | Weight balance          | 1        | SENSOR DISCG   |
| 7     | Magnetic stirrer        | 1        | LABTECH  |
| 8     | Iron trays              | 1        | Portable for material handling   |
| 9     | Glassware and chemicals | Etc.     | Pyrex: Beakers 100 ml 250ml 500ml, 1000ml, Flasks 100ml, 250ml, 2L, Graduate Cylinder 250ml, 500ml, 1L, Petri dishes, Glass slides |