



QEC Directorate

## Quality Enhancement Cell University of Karachi



Dr. Nadia Tahir  
MD QAA  
Higher Education Commission  
Islamabad

September 25, 2019

Subject: **SUBMISSION OF EXECUTIVE SUMMARY OF SELF-ASSESSMENT  
REPORT (SAR) AGRIBUSINESS PROGRAM 2018-19**

Dear Madam

Please find attached duly signed, executive summary of SAR Agribusiness Program (2018-19) offered by Department of Agriculture & Agribusiness Management, University of Karachi.

Thanking you in anticipation

Regards

Jawaid Akram

## **Executive Summary**

### **Self-Assessment Report (SAR) of Program Agribusiness Management**

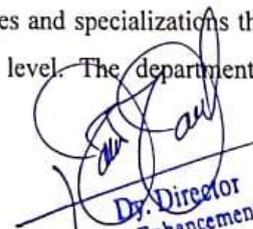
#### **Department of Agriculture & Agribusiness Management**

#### **Quality Enhancement Cell (QEC)**

#### **University of Karachi**

Agricultural Managers are the need of present era and to create the manpower of agribusiness professionals in Karachi, University of Karachi has created the Department of Agriculture and Agribusiness Management in 2008 to structure a roadmap to counter the challenges. The department offers specialized courses in "Agribusiness Management". Agribusiness is the business of agricultural production which involves the production, protection against pest and pathogen during storage and transit, sales and marketing of the product to satisfy the customer need. It encompasses farming and farming related commercial activities thus include collectively all business associated with production, processing and distribution of agricultural products. Agribusiness encompasses implementation of efficient and precise risk management strategies which can be helpful in increasing the crop yield and ultimately to boost the economy of the country. Courses offered for specialization in "Agribusiness Management" enables the students acquire in-depth knowledge management practices role pre and post-harvest stages of cropping sector and whole activities of livestock sector to overcome its problems.

To pursue this aim the Department of Agriculture & Agribusiness Management is designated to initiate and implement Self-Assessment process designed by Quality Assurance Agency (QAA) of HEC. The department is committed to produce students who can develop agribusiness by enhancing the efficiency and effectiveness of organizations to lead in global market place. Department follows its vision in all of its courses and specializations that are being offered at undergraduate, postgraduate and doctoral level. The department feels contentment on the completion of following list of tasks.

  
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1. Preparation of Self-Assessment Report (SAR) by Program Team for Agribusiness program.
2. Conduction of critical review and submission of Assessment Report (AR) by Assessment Team
3. Development of Rectification Plan by Head of Department

Thus all methodology was completed through Program Teams and Assessment Teams nominated by QEC.

### Methodology

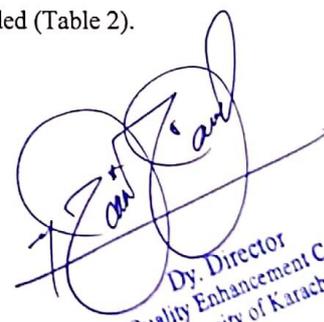
The following steps were adopted to complete this whole SAR process:

1. A Program Team (PT) was nominated for the program (Table 1). Initial orientation and training sessions for all members were arranged by QEC.

**Table 1: Program Team**

S.No.	Name	Affiliation
1.	Mr. Shahan Aziz	Assistant Professor Department of agriculture & Agribusiness Management, University of Karachi
2.	Mr. Muhammad Talha Azeem	Assistant Professor Department of agriculture & Agribusiness Management, University of Karachi

2. All the relevant material such as SAR manual, different Survey forms, etc. was provided to PT.
3. Continuous support, guidance and feedback were provided to PT members to prepare the SAR for said program.
4. After completion and submission of the final SAR from PT, an Assessment Team (AT) was formulated by Director QEC with the consent of Vice chancellor and a team of Subject Specialists & Experts from outside was also included (Table 2).

  
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**Table 2: Assessment Team**

S.No.	Name	Affiliation
1.	Dr. Jaam Ghulam Murtaza Sahito	Associate Professor Department of Agricultural Economics, FASS, Sindh Agriculture University, Tandojam
2.	Dr. Habibullah Magsi	Associate Professor Department of Agricultural Economics, FASS, Sindh Agriculture University, Tandojam

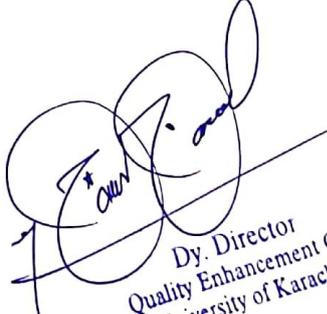
5. The SAR developed by PT was forwarded to AT for the purpose of critical review.
6. After completion of critical review and assessment of the SAR, AT team members were made a visit to the department and held a meeting with PT.
7. After the visit, AT submitted a report and feedback form to QEC.
8. QEC forwarded the observations & findings of AT report to the chairperson for developing a rectification plan.
9. QEC would now monitor implementation of Rectification Plan

**Parameters for the SAR:**

The SAR is prepared on the following eight (8) criteria prescribed by the HEC:

Criterion 1: Program Mission, Objectives and Outcomes Criterion

- Criterion 2: Curriculum Design and Organization Criterion
- Criterion 3: Laboratory and Computing Facility Criterion
- Criterion 4: Student Support and Advising Criterion
- Criterion 5: Process Control Criterion
- Criterion 6: Faculty Criterion
- Criterion 7: Institutional Facilities Criterion
- Criterion 8: Institutional Support

  
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## Findings in the SAR:

Following is the summary of the key SAR findings:

### Academic Observations:

1. More spacious and well equipped laboratories to fulfill the contemporary level of research/education are necessary for better output.
2. Developing linkages with national and international organizations.
3. Exposure of students in emerging job sectors.
4. Encouragement and formation of incubation Centre and entrepreneurial activities.
5. Conducting awareness sessions and farmer field days.
6. Arranging faculty trainings in advanced countries to equip them with latest developments and research skills.
7. 04 Computers are available for teachers, 02 for the other staff, but none for the students at the department,

### Administrative Observations:

1. More screen houses facility is required to conduct research trials
2. Improvement in permanent and extended agriculture farm should be established for field research with cropping and livestock sections.
3. Improvement in resources including research journals, and magazines are identified.
4. Lack of digital lab and internet in department.
5. Need to improve student-Teacher ratio which is inadequate and is an impediment in the achievement of program outcomes, therefore it should be addressed.

### Conclusion and Recommendations:

In the SAR it has been analysed that the department with agribusiness management progress is satisfactory with some recommendation to follow. The reflection in the SAR reported good for the program with the assessment score of 82.99 out of 100 reported by the AT.

AT recorded improvement in coordination with industry, collaborative activities, lack of resources including digital lab, research journals, magazines and internet in the department. It has been mentioned in entire SAR and it has been reported to Chairperson Department of Agriculture & Agribusiness Management. QEC will follow up the implementation plan as per QEC guidelines.

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DR. SAAD RAZA  
Chairperson  
Department of Agriculture &  
Agribusiness Management  
University of Karachi

*Dr. Saad Raza*  
Dy Director  
Quality Enhancement Cell  
University of Karachi

*Waqar Khan*  
For Approval

*Dr. Saad Raza*  
Acting Vice Chancellor  
University of Karachi  
Karachi

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KARACHI



DEPARTMENT OF AGRICULTURE & AGRIBUSINESS MANAGEMENT

AGRIBUSINESS MANAGEMENT

SELF ASSESSMENT REPORT  
B.S., M.Phil., Ph.D. in Agriculture

2018-19

**Program Team Members**

Dr. Saboohi Raza

Mr. Shahan Aziz

Mr. Muhammad Talha Azeem

along with QEC

*Saboohi*  
**DR. SABOOHI RAZA**  
**CHAIRPERSON**  
Department of Agriculture &  
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University of Karachi

**Assessment Team Member**

Dr. Jaam Ghulam Murtaza Sahito

Dr. Habibullah Magsi

along with QEC

*Jaam Ghulam Murtaza Sahito*  
**By Director**  
Quality Enhancement Cell  
University of Karachi.



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## **Introduction**

Agriculture plays a major part in Pakistan's economy with 19.5 percent of the gross domestic product, employing 42.3 percent of the labor force and providing raw material for several value-added sectors. Sindh is gifted with Indus River and Sindh produces a variety of field and horticultural crop. Of the total Pakistan agriculture production, Sindh produces 35% of the rice, 28% of sugarcane, 12% of wheat, 20% of the cotton, 88% of chilies, 73% of bananas, and 34% of the mangoes. Sindh also produces fodder, pulses, condiments, oilseeds, fruits, vegetables and produces of a large livestock industry.

Exportation of agricultural products are the main source to improve the economy of Pakistan. To facilitate trade with other countries, certain sets of rules and obligations have been developed by WTO and the trading nations which are normally followed in foreign trade today. Pakistan is facing the multifaceted problems in agriculture trade. This has caused a great loss to our country and which might result in permanent ban of trade. After fulfilling the requirement of WTO, Pakistan can export its commodities and able to open new dimensions of export to high earning countries. This will lead to high foreign exchange and farmers will be able to get better prices for their produce.

Agribusiness is the business of agricultural production which involves the production, protection against pest and pathogen during storage and transit, sales and marketing of the product to satisfy the customer need. It encompasses farming and farming related commercial activities thus include collectively all business associated with production, processing and distribution of agricultural products. Agribusiness encompasses implementation of efficient and precise risk management strategies which can be helpful in increasing the crop yield and ultimately to boost the economy of the country.

Karachi is business hub of Pakistan, majority of the multinational and local agricultural companies are based in this city. Apart from this, major agriculture export and import activities are carried out in Karachi. To create the manpower in the field of agriculture in Karachi, University of Karachi has established Department of Agriculture to structure a roadmap to counter the challenges that our farmers are facing. For this purpose, Department of Agriculture was initiated as BS Program in Agriculture in 2004. It acquired the status of the Department in 2006 and renamed as Department of Agriculture and Agribusiness Management in 2008. The department offers specialized courses in "Agribusiness Management" to focus pre- and post-harvest losses in crop yield that contributes a great deal to the ever-increasing food crises, while it also focuses on livestock and associated industries to resolve the problems of this sector.

Agribusiness is multi-disciplinary science offering courses that enables the students to acquire in-depth knowledge of economics, finance, management, supply chain management, planning, nursery management and subjects related to post-harvest management, processing including various socio-economic dynamics of entomology, pathology, livestock management, biotechnology, sustainable agriculture other relevant courses. Increasing opportunities exists for agricultural graduates to enter managerial positions in business organizations either large or small which may include meat, dairy, poultry processing, grain handling, feed manufacturing, seed and fertilizers firms, transportation and storage, wholesaling, retailing of food business.

For a comprehensive education in agribusiness, a rigorous industrial collaboration allowing students to have hands on learning and include real world experiences throughout their learning journeys. The program is committed to train future agribusiness managers and entrepreneurs by equipping them with the essential skills. Education and experiences

of Agribusiness management develop sound decision making capacity in students and lead them to stay abreast with the recent up fronts in Agribusiness Management.

The utmost and pivotal focus is agreed to foster entrepreneurship skills among students. Students are taught, trained, practice, promoted and motivated to practice agri-entrepreneurial activities either on small scale or large while participating on national and international platforms as well.

#### CRITERION-1PROGRAM MISSION, OBJECTIVES AND OUTCOMES

##### **Programme Mission Statement**

The Agribusiness program at Department of Agriculture & Agribusiness Management aims to educate and train effective managers and entrepreneurs for their successful careers in agribusiness and its allied subjects.

##### **Standards:**

##### **Standards 1.1: Documented strategic and measurable objectives:**

1. To educate and provide trained future agribusiness managers for better professional understanding for crop management and livestock professional careers.
2. To foster and promote agri-entrepreneurship.
3. To produce technically sound human resource for effective research and development in agribusiness sector.
4. To provide extension services to farmers, importers, exporters and filling the gap with industry and academia while conduction industrial problem based research.

##### **Outcomes:**

After completion of the BS programme in Agriculture with major in Agribusiness Management, the students shall be able to:

1. Develop better understanding of crop and livestock management practices that will improve jobs placement.
2. Acquire skills for product innovation, execution of business plans, execute business incubation and participate in start-ups pitch decks.
3. Managing quality procurement, budgeting, risk management, quality control and sales forecasting, Vendor management inventory practices while serving various agro-based enterprises.

4. Undertake and commence various research projects related to aspect of Agribusiness Management and consultancy services are also extended.

**Main elements of strategic plan to achieve mission and objectives:**

**Table 1 : Objective assessment**

Sr. #	Objectives	How Measured	When Measured	Improvement Identified	Improvement Made
1.	To educate and provide trained future agribusiness managers for better professional understanding for crop management and livestock professional careers.	<b>Surveys</b> a. Course Evaluation Questionnaire b. Graduating students survey c. Employer survey d. Alumni survey	<b>2018-2019</b>	1. Lack of certified nurseries and screen house facilities 2. Weak linkages with Provincial veterinary services. 3. Lack of toolkit for animal husbandry practices.	Explored better linkages with agro-based industries, Provincial veterinary services and other private organizations.  Improving curriculum and purchasing needful materials for nursery management and animal husbandry practices.
2.	To foster and promote agriculture entrepreneurship.	Surveys as above	<b>2018-2019</b>	Lack of courage and lack of incubation Centre	Students were encouraged to start a new business. University offered incubation center to start their own of business.
3.	To produce technically sound human resource for effective research and development.	<b>Surveys</b> a. Course Evaluation Questionnaire b. Graduating students survey c. Employer survey	<b>2018-2019</b>	1. Lack of lab facilities 2.lack of linkages with national and international organization	Development of research laboratories in the department and diversified linkages developed

		d. Alumni survey			
4.	To provide extension services to farmers and filling the gap with industry and academia while conducting industrial problem based research.	<b>Surveys</b> a. Course Evaluation Questionnaire b. Graduating students survey c. Employer survey d. Alumni survey	<b>2018-2019</b>	Lack of exposure of students in job markets and industry academia gap.	Field visits to different research station, companies and business research Centre related to Agribusiness Management.

**Standard 1-2: The programme must have documented outcomes for graduating students. It must be demonstrated that the outcomes support the programme objectives and that graduating students are capable of performing these outcomes.**

After completion of the BS program in Agriculture with majors in Agribusiness, the students shall be able to:

- To write a business plan, business feasibilities, market plan and designing of advertising campaigns.
- To deal effectively with business modelling and entrepreneurial thinking
- To understand and deals with the financial matters by understanding the concepts and terminologies of accounting
- To comply with the standards and ethical issues by having knowledge about agricultural policies and business regulations.
- To apply the principles and theories of various business functions including marketing, organizational behavior, MIS, finance, human resource management and operations at different situations.
- To understand the strategic role of various business functions like marketing, finance, human resources and operations.
- To exhibit knowledge of accounting terminology and prepare general journal entries (debit and credit).
- To calculate financial ratios and analyze the financial statements to correctly compare it with industry averages.
- To have a better understanding of value, supply and demand chains of agricultural commodities.
- To apply contemporary management and business theories and principles to deal with the issues and to manage agribusinesses effectively.

## Standard 1.2: Objectives vs outcomes

Programs Objective	Programs Outcomes			
	1	2	3	4
1	○	○	•	○
2	○	●	○	○
3	•	○	•	•
4	○	●	○	○

### Legend

- denotes substantial contribution to the objective and
- denotes moderate contribution to the objective.
- denotes no contribution to the objective.

### Proforma 1 & 10 Course and Teacher Evaluation

Report submitted to the QEC office.

### Proforma 2. Faculty course review report

Report submitted to the QEC office.

**Performa-3. Survey of Graduating Students.**

<b>Survey of Graduating students through Questionnaire-session: 2018-19</b>	
<b>Question</b>	<b>Score in %</b>
<b>1. The work in the program is adequate and induces a lot of knowledge.</b>	<b>90.56</b>
<b>2. program is effective in enhancing team-working abilities</b>	<b>81.11</b>
<b>3. The program administration is effective in supporting learning</b>	<b>79.80</b>
<b>4. The program is effective in developing analytical and problem solving skills</b>	<b>82.82</b>
<b>5. The program is effective in developing independent thinking</b>	<b>83.34</b>
<b>6. The program is effective in developing written communication skills</b>	<b>84.86</b>
<b>7. The program is effective in developing planning abilities</b>	<b>86.11</b>
<b>8. The objectives of the program have been fully achieved</b>	<b>84.45</b>
<b>9. Whether the contents of curriculum are advanced and meet program objectives</b>	<b>88.17</b>
<b>10. Faculty was able to meet the program objectives</b>	<b>83.11</b>
<b>11. Environment was conducive for learning</b>	<b>82.22</b>
<b>12. Whether the Infrastructure of the department was good</b>	<b>84.51</b>
<b>13. Whether the program was comprised of Co-curricular and extra-curricular activities</b>	<b>83.78</b>
<b>14. Whether scholarships/ grants were available to students in case of hardship</b>	<b>85.23</b>
<b>15. The Internship experience is effective in enhancing</b>	<b>84.82</b>
<b>a. Ability to work in teams</b>	<b>85.23</b>
<b>b. Independent thinking</b>	<b>86.33</b>
<b>c. Appreciation of ethical Values</b>	<b>85.22</b>
<b>d. Professional Development</b>	<b>83.33</b>
<b>e. Time Management Skills</b>	<b>86.33</b>
<b>f. Judgment</b>	<b>82.53</b>

### Performa 7 Alumni Survey:

<b>Alumni Survey through questionnaire for Academic year: 2018-19</b>	
Questions	Score in %
<b>I. Knowledge</b>	
1. Math, Science, Humanities and professional discipline	70.34
2. Problem formulation and solving skills	75.67
3. Collecting and analyzing appropriate data	76.64
4. Ability to link theory to practice.	71.45
5. Ability to design a system component or process	73.22
6. IT Knowledge	90.28
<b>II. Communications Skills</b>	
1. Oral Communication	95.35
2. Report writing	75.67
3. Presentation	93.33
<b>III. Interpersonal Skills</b>	
1. Ability to work in teams.	84.74
2. Ability to work in arduous /challenging situation	80.53
3. Independent thinking	81.58
4. Appreciation of ethical values	81.58
<b>IV. Management/ Leadership Skills</b>	
1. Resource and Time management skills	81.58
2. Judgment	79.47
3. Discipline	84.74
<b>V. Department Status</b>	
1. Infrastructure	90.33
2. Faculty	85.66
3. Repute at National level	73.11
4. Repute at International level	71.43

### Performa 8 Employer Survey

Employer Survey through questionnaire for Academic year: 2018-19	
Questions	Score in %
<b><i>I. Knowledge</i></b>	
Math, Science, Humanities and professional discipline	83.21
Problem formulation and solving skills	80.30
Collecting and analyzing appropriate data	84.51
Ability to link theory to practice.	86.32
Ability to design a system component or process	82.25
<b>Computer Knowledge</b>	
<b>II. Communication Skills</b>	
1. Oral Communication	81.00
2. Report writing	82.31
3. Presentation skills	83.60
<b>III. Inter personal Skills</b>	
1. Ability to work in teams.	83.12
2. Leadership	81.32
3. Independent thinking	81.34
4. Motivation	81.32
5. Reliability	86.71
6. Appreciation	85.20
<b>IV. Management/ Leadership Skills</b>	
1. Time Management Skill	82.21
2. Judgment	86.90
3. Discipline	89.31

**Standard 1-3: The results of Program’s assessment and the extent to which they are used to improve the program must be documented.**

**Strength of the discipline**

- New building having proper class rooms, research laboratories and advance equipment.
- The availability of highly qualified faculty.
- Collaborations with provincial and national Agricultural research organizations, PARC, HEJ, KIBJE and other agribusiness firms having vast experience in their filed.
- Industry need based projects and active involvement of various stake holders including famers to alleviate their socio-economic livelihood.
- Frequent field trips and visit to different research organization

**Weakness of the discipline**

1. Computer laboratory
2. No access to internet facility in the department.
3. No access to agribusiness journals.
4. Lack of green houses and glass houses.
5. Lack of foreign training to faculty.
6. Weak linkage between academia and industry.
7. Unavailability of national curriculum.

**Quantitative Assessment of the Department**

**Standard 1-4: Overall performance using quantifiable measures.**

**Present Performance Measures for Research Activities (2018-19)**

S. No.	Name of faculty member	Research Papers	Projects Completed
1.	Dr. Saboohi Raza	31	02
2.	Dr. Shagufta Sehar	01	-
3.	Mr. Talha Azeem	09	-
4.	Dr. Amjad Sultan	09	03
5.	Mr. Shahan Aziz	01	01
6.	Mr. Chand Gul	01	-

### **Faculty satisfaction regarding the administrative Services**

Administrative meeting (departmental, university, academic council and syndicates) are attended as and when required.

The department upholds a percentage 4:1 for the academic (technical) and administrative non-technical staff which fulfils the standard set by HEC Proper records of the following is maintained:

- Research Reports
- Assignments
- Tour reports
- Attendance report
- Evaluation report
- Student Enrolment

**Table No: 5**

<b>Degree</b>	<b>Pre-requisites for the degrees in Agriculture (Agribusiness Management)</b>
BS Agriculture	Academic minimum score of 2.45 CGPA, 144 credits hours normally in eight semester examination evaluation and internship.
M. Phil Agriculture	Completion of 24 credit hours course work with at least 3 CGPA and 6 credit hours Thesis work
Ph.D Agriculture	Completion of 18 credit hours course work and 12 credit hours Thesis work

### **Major Future Improvement Plans**

- Execution of research projects.
- Farmers field days, participatory PRA, research activities.
- Establishment of demonstration plots on farmer fields.
- Arranging faculty trainings in advanced countries to equip them with latest developments and research skills.
- Linking Corporate sector working majorly in Agribusiness
- Corporate sector visits
- Arranging symposium & workshops on Agribusiness Management
- Agribusiness products Launch Mela
- Agribusiness products display day.
- Revision of courses and their outline.

- Up gradation of latest books availability.
- Facilitating faculty to pursue their higher degree in specialized Agribusiness.
- Arranging faculty trainings in advanced countries to equip them with latest developments and research skills.

## **CRITERION 2: CURRICULUM DESIGN AND ORGANIZATION:**

### **Degree Title: BS/M.Phil/Ph.D**

Curriculum design and update is initiated by the faculty members of the discipline after the approval of Board of Studies which comprises of senior faculty members and subject specialists who are taken from other Universities or research Institutions. It is headed by the Chairman of the Department of Agriculture. The approved curriculum is then sent to Board of Faculty, headed by the Dean Faculty of Sciences. This Board consists of Chairmen/HODs from all the Departments of the faculty of science, including Director Academics and Director QEC. Finally the curriculum is presented before the Academic Council which is comprised of the Professors, Chairpersons of departments Faculty Representatives and nominated experts.

### **Definition of Credit Hour**

A student must complete a definite number of credit hours. One credit hour is one hour theory lecture and three hours practical work per week. A semester lasts for about 16-18 weeks.

### **Pre-requisites Academic Requirements BS/MPhil/Ph.D.**

A person holding F.Sc. pre-medical/pre-engineering from any recognized institute with at least second division or overall 45 % marks is eligible for application submission. Merit is determined on the basis of intermediate marks. Eligibility criteria for MPhil and PhD is subject based entry test (50% passing marks) followed by an interview before DRC members of the Department. 3 CGPA in the course work is mandatory for research work.

### **Degree Requirements BS/M.Phil/Ph.D.:**

Degrees are awarded after completing the required number of credit hours (courses). Minimum CGPA for obtaining the BS degree is 2.45 and 3.0 for MPhil

**Examination Weightage BS/M.Phil/Ph.D.:**

In course work, student's evaluation is done by mid-term examination, assignments/presentations/quizzes and final examination. A student, who misses the mid-term examination, is not allowed a make-up examination and is awarded zero marks in that examination. In case a student does not appear in the final examination of a course, he shall be deemed to have failed in that course. In theory, weightage to each component of examination is as prescribed here under:

Credit Hours (2+1)	
Mid-term Examination	20%
Assignments/Surprise test	10%
Final theory examination	50%
Final Practical examination	20%

Credit Hours (3+0)	
Mid-term Examination	20%
Assignments/Surprise test	10%
Final theory examination	70

A student is eligible to sit for the examination provided that he/she has attended not less than 75% of the classes in theory and practical, separately. The minimum pass marks for each course are 45 % for BS

**Degree Plan**

The BS Agri: degree consists of minimum 8 semesters/ 4 years. As a whole a students has to study 144 credit hours. Degree is awarded after completing courses hours with at least CGPA 2.45.

List of Courses offered by the Department of Agriculture Agribusiness Management and Agribusiness Management is given at Annexure-1

## Standard 2.1: Assessment of the Curriculum of Agribusiness Management

Courses	Objectives					
	1	2	3	4	5	6
521,522, 525,526, 529,530, 624,625,627,628,629, 632	o	●	o	●	●	.
631,633,632, 523,524,	o	o	●	o	o	●
527,531, 532,533,623,720	●	●	●	o	●	
528, 621,717,802	o	.	●	o	o	●
626,701, 719, 716,718, 722	●	●	o	.	o	o
534, 536, 535, 615 ,622,715, 718,801, 803,804	o	●	●	o	o	o

### Legend

- denotes substantial contribution to the objective
- o denotes moderate contribution to the objective.
- .
- denotes no contribution to the objective.

The Curriculum fits very well and satisfies the core requirements for the program, as specified by the respective accreditation body. The Curriculum satisfied the general arts and professional and other discipline required for the program according to demands and requirements set by the Higher Education Commission (HEC).

**Standard 2.2: Theoretical background, problems analysis and solution design in the program material.**

<b>Elements</b>	<b>Course No.</b>	<b>Course Title</b>
Theoretical and Practical Background	AGR-521	Introduction to Agribusiness Research Methods
	AGR-522	Business Information Systems
	AGR-523	Economics of Agrobased Industries (Optional)
	AGR-524	Farm Planning and Management
	AGR-525	Fundamentals of Accounting
	AGR-526	Organizational Behaviour
	AGR-527	Principles of Management
	AGR-528	Agricultural Benefit -Cost Analysis
	AGR-529	Agricultural Finance
	AGR-530	Breeding for Horticultural Crops (Optional)
	AGR-531	Livestock Nutrition Management (Optional)
	AGR-532	Nurseries Management and Certification System (Optional)
	AGR-533	Economics of Livestock Production (Optional)
	AGR-534	Management of Farm Animals (Optional)
	AGR-535	Sustainable Agriculture (Optional)
	AGR-536	Dairy and Meat Production (Optional)
	AGR-615	Post-Harvest Processing and Management (Optional)
	AGR-621	Agribusiness Marketing and Management
	AGR-622	Human Resource Management
	AGR-623	Quality Control and Assurance
	AGR-624	Agri-Entrepreneurship
	AGR-625	Socio Legal and Ethical Issues in Agribusiness
	AGR-626	Operation, Supply & Support Logistics
	AGR-627	Meat Poultry and Fish Processing (Optional)
	AGR-628	Branding & Advertising in Agribusiness
	AGR-629	Agribusiness Strategy and Policy
	AGR-631	Poultry Farm Management and Production (Optional)
AGR-633	Vegetable and Flower Seed Production (Optional)	
Problem analysis/ Solution Design	AGR-632	Special Problem/Internship
	AGR-701	Research Methods
	AGR-715	Agricultural Trade & Policy
	AGR-716	Marketing Analysis
	AGR-717	Management Accounting

AGR-718	Advance Supply Chain Management & Support Logistics
AGR-719	Econometrics
AGR-720	Project Planning & Management
AGR-722	Monetary and Fiscal Policy
AGR-801	Research Seminars
AGR-802	Seminars in current advance in discipline
AGR-803	Thesis and manuscript writing skills
AGR-804	Development of research proposal for funding agency

### Standard 2.3: Credit hours distribution

Elements	Credit hours/ semester	Total credit hours	Theory	Practical
BS Agriculture	18	144	~ 90	~ 50

### Standard 2.4: Credit hours and HEC requirement

The courses offered by the discipline of Agribusiness Management meet the minimum criteria as laid down by Higher Education Commission.

### Standard 2.5: Attendance requirement

Attendance required in each course is 75%, below which the student is not allowed to sit in the examination.

### Standard 2.6: Information technology component of the curriculum must be integrated throughout the program.

### Standard 2.7: Enhancing Oral and Written Communication Skills of the students

- Assignments are given to students relevant to course having practical usage which are presented by them orally and submitted as written report. This practice not only increase their knowledge but also enhance their oral and written communication skills.
- A 3 credit hours course “Communication Skills” has also been included in the curriculum.

### **CRITERION 3: LABORATORIES AND COMPUTER FACILITIES**

**Laboratory title:**

<b>1.</b>	<b>Molecular Plant Pathology Lab</b>
<b>2.</b>	<b>Plant Tissue Culture Lab</b>
<b>3.</b>	<b>Pest and Disease Research Lab</b>
<b>4.</b>	<b>Pesticide Toxicology Lab</b>
<b>5.</b>	<b>Biological control Lab</b>
<b>5.</b>	<b>Entomology Post Graduate Research Lab</b>
<b>6.</b>	<b>Seed Testing Lab</b>
<b>7.</b>	<b>Mushroom Cultivation Lab</b>
<b>8.</b>	<b>Post Harvest Management &amp; Food Safety Lab</b>
<b>9.</b>	<b>Undergraduate labs (07 in numbers)</b>

#### **Standard 3.1: Laboratory manuals / documentation / instructions for experiments**

Laboratory manuals are documented and available in seminar library.

#### **Standard 3-2: Support personal for instruction and maintaining the laboratories.**

1.	Muhammad Miraj Uddin	Lab Assistant
2.	Shakir Hussain	Office Assistant
3.	Nooruddin	Lab Assistant
4.	Rizwan Siddiqui	C. C. T.
5.	Muhammad Afzal	Lab Assistant
6.	Masroor Ali	Garden Mistry
7.	Muhammad Shahid	Lab Assistant
8.	Sajid	Lab attendant
9.	Jahanzaib	Messenger

### **Standard 3-3: Computing infrastructure and facilities**

#### **Computer facilities:**

04 Computers are available for teachers, 02 for the other staff, but none for the students at the department, however a centralized computer lab with > 20 computers in and at LEJ digital lab for the students



**WELL EQUIPPED CLASS ROOMS**



**SEMINAR LIBRARY**



**SEED TESTING LAB**



### **POST HARVEST MANAGEMENT & FOOD SAFETY LAB**

#### **CRITERION 4: STUDENT SUPPORT AND ADVISING**

After the recommendation students get financial assistance from various sources like HEC need based scholarship, Karachi University alumni, Musajee & Sons and other funding agencies.

#### **Standard 4-1: Number and frequency of courses offered for the students.**

- Total 48 Courses in four year BS programme and six courses per semester.

#### **Standard 4-2: Courses offered in the major area of study.**

24 major courses including mandatory internship and projects

#### **Standard 4-3: Academic advising and guidance on making course decisions and career choices**

- Students advised about the program requirements by the faculty and carrier counseling by student adviser.
- Students are also welcome to consult their relevant teachers whenever they face any Professional problem.

## **CRITERION 5: PROCESS CONTROL**

It includes student admission, registration, faculty recruitment activities which are dealt by various statutory bodies and the university administration.

### **Standard 5-1: Criteria for admission of students in the discipline**

Students of BS Agriculture 5<sup>th</sup> semester, choose the discipline of Agribusiness Management out of the total three available disciplines.

**Table No. 6. Admission requirements in the department for BS Agriculture**

<b>Degree</b>	<b>Pre-requisites</b>
BS Agriculture	F.Sc. (Pre-medical/Engineering or equivalent)

### **Standard 5-2: Student registration/admission procedure.**

- The student names, after completion of the admission process, are forwarded to the registrar office and the directorate of admissions for proper registration in the specific program and registration numbers are issued to the students.

### **Standards 5-3: Faculty recruitment procedure.**

- Faculty recruitment procedure/policy may be taken from registrar

### **Standard 5-4: Process and procedures used for ensuring teaching and delivery of course material to the students for emphasizing active learning.**

- To help providing high quality teaching, Department periodically revises the curriculum depending upon requirements, innovations and new technology
- With the emergence of new fields, new courses are set and included in the curriculum. Lecture notes are also prepared by the teachers and given to the students.
- Most of the lectures are also supplemented by multimedia and other audio-visual aids.
- All-out efforts are made that the courses and knowledge imparted should meet the objectives and outcomes. The progress is regularly reviewed in the staff meetings.

### **Standard 5-5: Process for ensuring that the graduates meet the requirements**

Examination is conducted as per the academic calendar of the university. Result is prepared by the faculty within a week after the examination. The final result is then sent over to the university controller of examination for further notification and necessary action.

## **CRITERION 6: FACULTY**

### **Standard 6-1: Full time faculty for the discipline of Agribusiness Management**

S.No.	Name of faculty member	Designation	Qualification	Name of Country Awarding Highest Degree	Date of Birth	Email address
1.	Dr. Saboohi Raza	Associate Professor	Ph. D.	Pakistan	03/04/1974	<a href="mailto:razasaboohi@uok.edu.pk">razasaboohi@uok.edu.pk</a>
2.	Dr. Shagufta Sehar	Assistant Professor	Ph. D.	Pakistan	04/01/1988	<a href="mailto:shagufta.sahar@uok.edu.pk">shagufta.sahar@uok.edu.pk</a>
3.	Mr. Talha Azeem	Assistant Professor	M. Phil	Pakistan	13/04/1985	<a href="mailto:mtazaem@uok.edu.pk">mtazaem@uok.edu.pk</a>
4.	Dr. Amjad Sultan	Assistant Professor	Ph. D.	Pakistan	24/10/1984	<a href="mailto:amjad.sultan@uok.edu.pk">amjad.sultan@uok.edu.pk</a>
5.	Mr. Shahan Aziz	Assistant Professor	M. Phil	Pakistan	09/12/1982	<a href="mailto:shah.aziz@uok.edu.pk">shah.aziz@uok.edu.pk</a>
6.	Mr. Chand Gul	Teaching Associate	M. Phil/MBA	Pakistan	30/01/1986	<a href="mailto:chandgul.abm@gmail.com">chandgul.abm@gmail.com</a>

**Table: 8 Faculty Distribution by Program Areas**

S. No.	Area of Specialization	Faculty members
1.	Agriculture Biotechnology	Dr. Saboohi Raza
2.	Agriculture Biotechnology	Dr. Shagufta Sehar
3.	Agribusiness Management/Agribusiness Entrepreneurship	Mr. Talha Azeem
4.	Horticulture/ Nursery Management/Sustainable Agriculture	Dr. Amjad Sultan
5.	Agribusiness Management/ Supply Chain Management/ Value Chain Management	Mr. Shahan Aziz
6.	Agribusiness Management/Agricultural Finance/Supply Chain Management	Mr. Chand Gul

**Standard 6.2: All faculty members must remain current in the discipline and sufficient time must be provided for scholarly activities and professional development. Also, effective programs for faculty development must be in place.**

- Faculty members continuously update their knowledge by communicating the recent developments in their field of specialization through latest books and research publications.
- Training programs offered by different national institutes in relevant fields are also attended by the faculty members to enhance their skills. However, opportunities for the foreign trainings will be more useful in this regard.

**Standard 6-3: All faculty members should be motivated and have job satisfaction to excel in their profession.**

Yes

### **CRITERION – 7: INSTITUTIONAL FACILITIES**

**Standard 7.1: The institutional infrastructure**

- The department has five spacious classrooms.
- Department has well equipped seven research laboratories.

**Standard 7.2: Books in the library relevant to the discipline of Agribusiness Management**

The university Central Library has very large number of books, latest hard copies of journals. Department seminar library has more than 448 books available in the discipline of Agribusiness out more than 1000 books.

**Standard 7.3: Class-rooms must be adequately equipped and offices must be adequate to enable faculty to carry out their responsibilities.**

1. There is a new building for the department which containing five rooms and room of faculty is also available.
2. Each class is being well equipped with multimedia and sound system.
3. Keeping in view sitting arrangement has improved with well-furnished false ceiled class rooms and labs.
4. Well furnished library with better sitting and learning environment has been maintained with addition of new books.

## **CRITERION – 8: INSTITUTIONAL SUPPORT**

### **Institutional Support:**

- Institutional support is highly appreciated.
- Sufficient secretarial support, technical staff and office equipment.

### **Lack of Institutional support**

- Financial support should be raised and allocate funds for research students.

**Standard 8-1: There must be sufficient support and financial resources to attract and retain high quality faculty and provide the means for them to maintain competence as teachers and scholars.**

Individual research grants for faculty are available. There is a dire need for increasing the financial resources allocated to the department to establish laboratories and a departmental library.

**Standard 8-2: There must be an adequate number of high quality graduate students, research assistants and Ph.D. students.**

1.	BS Agriculture	180 Enrolled 627 passed
2.	M. Phil. Agriculture (Passed out students)	51 Enrolled 20 Passed
3.	PhD. Agriculture (Passed out students)	23 Enrolled 10 Passed

**Standard 8-3: Financial resources must be provided to acquire and maintain Library holdings, laboratories and computing facilities.**

Adequate funds are provided annually for the seminar library, no computer lab is available at the department, however, students use LEJ digital library for their studies

## Annexure-1. SCHEME OF STUDY/LIST OF COURSES

<b>Course Title</b>	<b>First Year (First Semester)</b>	<b>Credit hours</b>
AGR-311	Introduction to Agriculture and Agribusiness	3+0
AGR-301	Basic Soil Science	2+1
303	Mechanization in Agriculture	2+1
AGR-305	Field Crop Production	2+1
300.1 FM	Mathematics I	2+1
AGR-300.1 FB	Biology I	2+1
AGR-300.1 E	English	3+0
<b>Course Title</b>	<b>First Year (Second Semester)</b>	<b>Credit hours</b>
AGR-312	Introduction to Agribusiness Management	2+1
AGR-302	General Horticulture	2+1
AGR-304	Communication Skills	3+0
AGR-306	Introduction to Food Science & Technology	2+1
300.2 (F.M)	Mathematics-II (Compulsory)	3+0
300.2 (F.B)	Biology - II (Compulsory)	2+1
300.2 (I.S)	Islamic Studies (Compulsory)	3+0
<b>Course Title</b>	<b>Second Year (Third Semester)</b>	<b>Credit hours</b>
AGR-400.1 PS	Pakistan Studies	3+0
AGR-401	Introductory Plant Entomology	2+1
AGR-403	Economics of Agricultural Production	3+0
AGR-405	Introduction to Crop Physiology and Biochemistry	2+1
AGR-407	Fundamentals of Animal Husbandry	2+1
AGR-409	Basic Agricultural Statistics I	2+1
<b>Course Title</b>	<b>Second Year (Fourth Semester)</b>	<b>Credit hours</b>
AGR-400.2 (U)	Urdu (Compulsory)	3+0
AGR-400.2 (C.A)	Computer Applications (Compulsory)	2+1
AGR-402	Introduction to Plant Pathology	2+1
AGR-404	Introduction to Plant Breeding & Genetics	2+1
AGR-408	Agricultural Microbiology	2+1
AGR-410	Basic Agricultural Statistics – II	2+1
<b>Course Title</b>	<b>Third Year (Fifth Semester)</b>	<b>Credit hours</b>
AGR-521	Introduction to Agribusiness Research Methods	3+0
AGR-523	Economics of Agrobased Industries	3+0
AGR-525	Fundamentals of Accounting	3+0
AGR-527	Principles of Management	3+0
AGR-529	Agricultural Finance	3+0
AGR-531	Livestock Nutrition Management	2+1
AGR-533	Economics of Livestock Production	3+0
AGR-535	Sustainable Agriculture	3+0
<b>Course Title</b>	<b>Third Year (Sixth Semester)</b>	<b>Credit hours</b>
AGR-522	Business Information Systems	3+0
AGR-524	Farm Planning and Management	3+0

AGR-526	Organizational Behaviour	3+0
AGR-528	Agricultural Benefit -Cost Analysis	3+0
AGR-530	Breeding for Horticultural Crops	2+1
AGR-532	Nurseries Management and Certification System	2+1
AGR-534	Management of Farm Animals	2+1
AGR-536	Dairy and Meat Production	2+1
<b>Course Title</b>	<b>Fourth Year (Seventh Semester)</b>	<b>Credit hours</b>
AGR-615	Post-Harvest Processing and Management	2+1
AGR-621	Agribusiness Marketing and Management	3+0
AGR-623	Quality Control and Assurance	3+0
AGR-625	Socio Legal and Ethical Issues in Agribusiness	3+0
AGR-627	Meat Poultry and Fish Processing	2+1
AGR-629	Agribusiness Strategy and Policy	3+0
AGR-631	Poultry Farm Management and Production	2+1
AGR-633	Vegetable and Flower Seed Production	2+1
<b>Course Title</b>	<b>Fourth Year (Eighth Semester)</b>	<b>Credit hours</b>
AGR-622	Human Resource Management	3+0
AGR-624	Agri-Entrepreneurship	3+0
AGR-626	Operation, Supply & Support Logistics	3+0
AGR-628	Branding & Advertising in Agribusiness	3+0
AGR-632	Thesis / Internship + Project	0+6
<b>Course Title</b>	<b>MS (First Semester)</b>	<b>Credit hours</b>
AGR-701	Research Methodology	3+0
AGR-711	Agriculture Policy & Trade	3+0
AGR-713	Econometrics	3+0
AGR-715	Managerial Accounting	3+0
<b>Course Title</b>	<b>MS (Second Semester)</b>	<b>Credit hours</b>
AGR-716	Marketing Analysis	3+0
AGR-718	Advanced Supply Chain Management and Logistics	3+0
AGR-720	Project Planning and Management	3+0
AGR-722	Monetary and Fiscal Policy	3+0
AGR-720	Project Planning and Management	3+0