



AIC Report

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Table of Contents

Abstract	3
1. Introduction	4
2. Department of Agricultural Economics	4
2.1. History of the department	4
2.2. Mission statement	4
2.3. Objectives and goals	4
2.4. Degree programs offered	5
3. Analysis of Programs by Prescribed Criteria	5
3.1. Criteria I. Strength and quality of the faculty	5
3.2. Criteria II. Curriculum design and development	5
3.3. Criteria III. Infrastructure and learning resources	5
3.4. Criteria IV. Student support and progression	5
3.5. Criteria V. Research and consultancy activities	6
3.6. Criteria VI. Governance and leadership	6
3.7. Criteria VII. Recent innovations and best practices	6
4. SWOT Analysis	7
4.1. Strength	7
4.2. Weakness	7
4.3. Opportunities	7
4.4. Threats	7
5. Actionable Recommendations	8
Final Recommendations	8
Annexure	9

ABSTRACT

University of Sargodha is running three colleges including College of Agriculture where Degree of B.Sc. (Hons) Agriculture (Major Agricultural Economics) is being offered in the Department of Agricultural Economics. There are 8 faculty members and 31 students in the department. The fundamental goal of the department is to provide students with the applied concepts and tools to identify, define, and analyze economic problems affecting the performance of the agri-food sector and the environment. The key objective is to provide graduate training in the applied economics including agricultural marketing and trade, policy, development, and environmental and ecological economics. The strength of the faculty is moderate amidst visiting teachers while quality of the teaching faculty is remarkable as they are devoted and dedicated to academic tasks. Curriculum objectives of degree program are quite realistic in nature and suffice the minimum criteria of the Higher Education Commission. Faculty shows keen interest in the purchase of new books related to latest curriculum. Class rooms are well equipped and good in shape. Audio-visual lab for video conferencing is intact. Departmental library facility is present with reasonable number of books and access to HEC digital library. Student response to admission in degree program is good. Four students are availing merit and need based scholarships besides fee concession facility. The profile of faculty members indicates that they do research activities in terms of publications of research papers.

It is quite impressive to note that the environment in the department is quite friendly. The Head of the Department and Principal of College are well coordinated. Student participation in seminar/lecture organization may be encouraged to build their confidence and professionalism. Integrated approach in research and innovation need to be followed by developing joint projects with other agricultural departments. SWOT analysis reveals that college is full of strengths and opportunities as it is situated in the prime location of citrus belt. There is mature leadership who is committed to accelerate the element of academic motivation. There is emerging demand of Agricultural Economists not only in the country but in the world as well. In order to avail such opportunities, the weaknesses of the department must be realized like lack of research projects, low wage rate for visiting faculty. An element of risk should not be ignored as existing faculty could switch over to other jobs as opportunities emerge. So, there is a dire need to recruit permanent faculty and train them at par with international standards. Department industry linkages can be developed if more senior faculty is recruited and joint projects can be explored. Finally, keeping all these multi raged criteria in view, department can be taken on board with a middle band of X category as standardized by HEC.

1. Introduction:

University of Sargodha (UOS) was established in 2002 when Government College was given the status of Public Sector University by the Punjab Government. During the session of 2013-14, there are 22000 students pursuing various degrees in 30 different departments of the University. University College of Agriculture (UCA) is one of the three (03) professional colleges of UOS. It was established in October, 2005. The college enrolled 50 students in its first year and gradually increased the enrolment to the tune of 300 students per annum. The College possesses its own beautiful campus along with vast experimental farm area.

2. Department of Agricultural Economics:

2.1. History of the department

In the very beginning, Agricultural Economics was only offered for all students pursuing B.Sc. (Hons) Agriculture as a minor subject before they select the major fields. The department of Agricultural Economics was notified in 2012 and soon after its inception Agricultural Economic was offered as a major subject in fifth semester of the B.Sc (Hons) degree program. Presently, 13 and 18 students are studying in 6th and 8th semesters of the program, respectively. Department has 23 publications in its credit in impact factored/HEC recognized journals for the year 2012-13.

2.2. Mission statement

“Through teaching, research, and extension, our mission is to improve economic choices and management decisions of individuals, families, farms, businesses, communities, organizations, and policy makers in areas related to agriculture, food, resources, and economic development”.

2.3. Goals and Objectives

The goal of graduate training in Agricultural Economics is to provide students with the applied concepts and tools to identify, define, and analyze economic problems affecting the performance of the agri-food sector and the environment. The objectives of graduate training in Agricultural Economics are:

To provide graduate training in the applied economics including agricultural marketing and trade, policy, development, and environmental and ecological economics.

To pursue relevant research topics in the above areas in the form of a research thesis.

To serve the local, provincial, national communities by providing highly qualified graduates and relevant research that contribute toward solving problems related to the performance of the agricultural and resource sectors of Pakistan.

2.4. Degree program Offered

In pursuance of its goals and objectives Departments of Agricultural Economics, University College of Sargodha, UOS offers following three degree program:

- B.Sc. (Hons) Agriculture with major in Agricultural Economics,

3. Analysis of Degree Program by Prescribed Criteria:

3.1. Criterion I: Strength and quality of the faculty

The Department of Agricultural Economics is being run with Assistant Professor and Lecturers though they have support of two Professors from Department of Economics. Major teaching work load is being pulled on by young teaching assistants. All are devoted and dedicated to academic tasks. The course files reflect that quizzes, take home assignments, presentations, mid-term and final exams are adequately used as instrument to assess students' performance. Maintenance of course files and course review reports for improvement of the courses is being observed however some improvement can be made in this regard. Salary package and allied fringe and benefits to teaching assistants seem low in comparison to qualification and exiting market situation. However, faculty perception about job satisfaction is moderate. Personal interview of the faculty indicates that they are satisfied and committed to continue their work.

3.2. Criterion II: Curriculum design and development

Curriculum objectives of degree program are quite realistic in nature and suffice the minimum criteria of the Higher Education Commission. Course registration and withdrawal policies are well spelled and adequately disseminated. Admission policy is well documented and notified too. Faculty shows keen interest in the purchase of new books related to new curriculum.

3.3. Criteria III: Infrastructure and learning resources

Since College has constructed recently, there is no significant dearth of logistics and fixtures. Class rooms are well equipped and good in shape. Audio-visual lab for video conferencing is intact. Departmental library facility is present with reasonable number of books and access to HEC digital library. Regular subscription of latest journals and research material may need to be taken care of. More faculty offices are required to carry out research and other curricular activities without much interruption.

3.4. Criteria IV: Student support and progression

Student response to admission in degree program is good. Medical and sports facilities are available at central level. Four students are availing merit and need based scholarships besides fee concession facility. Transport and hostel facilities are available to the students.

3.5. Criteria V: Research and consultancy activities

Though internship opportunities are available however some more diversity in professional training facilities is required by exploring the area of trade & commerce, industry, banking and finance, etc. Since the department is interested in initiating M.Sc. Agricultural Economics program in very near future, the momentum of research and consultancy activities would be increased over time. The profile of faculty members indicates that they do research activities in terms of publications of research papers.

3.6. Criteria VI: Governance and leadership

It is quite impressive to note that the environment in the department is quite friendly. The typical boss system as generally observed in other public sector universities is not existed. The Head of the Department and Principal of College are well coordinated. They have developed tradition of consultation with each other and with junior colleagues as well. There is open discussion of all academic and research related matters. The entire faculty in the department is carrying a good level of commitment and enthusiasm to make quick changes in the academic environment. The department is also enjoying reasonable financial freedom as they get their financial proposals quickly approved from the competent authority.

3.7. Criteria VII: Recent innovations and best practices

Student teacher relationship and conducive environment for teaching faculty are commendable. Student participation in seminar/lecture organization may be encouraged to build their confidence and professionalism. Integrated approach in research and innovation need to be followed by developing joint projects with other agricultural departments. There is a need to develop and strengthen linkages with foreign universities and institutions.

4. SWOT Analysis:

4.1. Strengths

- Prime Location of the University College of Agriculture (UCA).
- Well known vicinity is for citrus and milk production having enormous agribusiness activities.
- Mature leadership and committed faculty
- An excellent fabric of motivated among students and teachers
- Good interaction among students and faculty members

4.2. Weaknesses

- Shortage of faculty at senior levels on permanent basis
- Lack of Research Projects in the credit of faculty
- Low wages for visiting faculty

4.3. Opportunities

- Recognition of the field of Agricultural Economics at national and international levels.
- Emerging demand for well-trained agricultural economists in public and private sectors in the fields of teaching, research and development.
- National and international funding agencies provide project funding.
- Scholarships for students as well as for junior faculty for higher studies.
- Opportunities for induction of senior faculty.
- Cluster of Agro based industries as for instance citrus processing.

4.4. Threats

- Lack of capability to undertake higher level degree programs.
- Less number of research projects.
- Switching over of existing faculty.

5. Actionable Recommendations:

- Placement of students in variety of institutions for their internship.
- Selection of senior faculty in the department
- Subscription to reputed journals in the department
- Provision of adequate funds for grooming of young professionals
- Nominations of faculty to national and international seminars
- Initiation of multidisciplinary research projects
- Developing department-industry linkages

Final Recommendations:

On the basis of the findings of multi ranged criteria and in house inspection, Department of Agricultural Economics, University College of Agriculture, UOS should fall in the middle band (75.5 percent Score) of X category of National Agriculture Education Accreditation Council/HEC.

ANNEXURE I

Weightage for B.Sc. (Hons) Agriculture Degree Program

Major Agricultural Economics

Sr. No.	Program Evaluation Criteria	Points Assigned	Points Awarded
Major Criteria			
1	Strength and Quality of Faculty	200	120
2	Curriculum Design and Development	150	120
3	Infrastructure and Learning Resources	200	170
4	Students Support and progression	150	120
Sub - Total (a)		700	530
Minor Criteria			
5	Research and Consultancy Activities	150	110
6	Governance and Leadership	100	80
7	Recent Innovations and Best practices	50	35
Sub - Total (b)		300	225
Grand Total (a+b)		1000	755

APPENDIX I
FACULTY PROFILE

Sr.No	Name	Designation	Qualification	Experience
1	Dr. Maqbool H. Sial	Professor	Ph.D.	22 years post Ph.D.
2	Dr. Khalid Mustafa	Professor	Ph.D.	20 years post Ph.D.
3	Mr. Nadeem Anwar	Assistant Professor	M. Phil.	14 Years
4	Mr. Samiullah	Lecturer	M. Phil.	7 Years
5	Mr. Muazam Sabir	Lecturer	M. Phil.	3 Years
6	Mr. Shoaib Nasir	Teaching Assistant	M. Phil.	Less than a year
7	Mr. Zulqarnain Haider	Teaching Assistant	M. Phil.	Less than a year
8	Ms. Bushra Hassan	Teaching Assistant	B.Sc. (Hons)	Less than a year

APPENDIX II

FACULTY PARTICIPATION IN SEMINAR

Sr. No.	Name	Conference attended
1	Dr. Maqbool Hussain Sial	1: Participated in the 1 st Deans & Directors International Conference on Emerging Challenges of Business Schools in Pakistan from 27 to 28 January 2014 at Islamabad organized by NBEAC, Higher Education Commission of Pakistan.
		2: Participated in 4 th International Conference on Business Management (4 th ICoBM) at Sukkur IBA on 26-27 February 2014.
2	Dr. Khalid Mustafa	1: Presented paper in the 14th World Congress on Environment Management, World Environment Foundation, 7-8 July, 2014 New Delhi, India.
3	Nadeem Anwar	1: International Symposium titled "Strategies for Overcoming Food Security Problems through Utilization of Rain-fed Areas held on 26-28 March, 2014
		2: 5 th Wheat Conference at University College of Agriculture held on
		3: Project Formulation Workshop arranged by Pakistan Science Foundation held on 10-11. .2012
		4: 4 th Wheat Conference at University College of Agriculture held on 12.04.2012

APPENDIX III
LIST OF EQUIPMENTS

Sr. No.	Equipments	Number
1	Desktop Computers, core 2Duo with 8 Mbps internet connection	40
2	Multimedia	4
3	Photo copier	3
4	LED TV for video conferencing	2
5	HD Webcam for video conferencing	1
6	Scanner	1
7	Fax	1

APPENDIX IV

LIST OF TEXT BOOKS

List of Books in Departmental Library		
Sr.no	Book Title	Author
1.	Modern Micro-Economics	M.L. Jhingan
2.	Mathematics for Economic Analysis	Knut Sydsaeter
3.	Econometric Analysis	William H. Greene
4.	Probability and Statistics	Murray R Spiegel
5.	Probability and Statistics	Murray R Spiegel
6.	Bio Statistical Analysis	Jerrold. H. Zar
7.	Probability and Statistics	Murray R Spiegel
8.	Mathematical Models in Agriculture	J. France
9.	Mathematical Models in Agriculture	J. France
10.	Principles of Microeconomics	S. Chand
11.	Research Methodology in Agricultural Economics	A.C. Broadway
12.	Fundamental of Agricultural Statistics	K.P. Dhamu
13.	Fundamental of Agricultural Statistics	K.P. Dhamu
14.	Fundamental of Agricultural Statistics	K.P. Dhamu
15.	Fundamental of Agricultural Statistics	K.P. Dhamu
16.	Bio Statistics	Wayne W. Daniel
17.	Introduction to Rural Planning	Dave Shaw
18.	Introduction to Rural Planning	Dave Shaw
19.	Introduction to Rural Planning	Dave Shaw
20.	Statistics 4 th Edition	David Freedman
21.	Statistics 4 th Edition	Devore/ Peck
22.	Year Book 2004-2005	Ministry of Agriculture
23.	Commercial Banks and Agricultural Finance	K. Veerachari
24.	Experimental Designs 2 nd Edition	William G. Cochran
25.	Experimental Designs 2 nd Edition	William G. Cochran
26.	Bio Statistical Analysis 4 th Edition	Jerrold H. Zar
27.	Planning Agricultural Research	W. Janssen
28.	Planning Agricultural Research	W. Janssen
29.	Planning Agricultural Research	W. Janssen
30.	Planning Agricultural Research	W. Janssen
31.	Planning and Rural Development	Shakuntala Devi
32.	Multiple criteria Analysis for Agricultural Decisions 2 nd Ed	Carlos Romero
33.	Agricultural Statistics of Pakistan 1961-1970	Ministry of Economics
34.	Agricultural Statistics of Pakistan 1971-1980	Ministry of Economics
35.	Agricultural Statistics of Pakistan 1981-1990	Ministry of Economics
36.	Agricultural Statistics of Pakistan 1991-2000	Ministry of Economics
37.	Statistics 4 th Edition	David Freedman
38.	Statistics 4 th Edition	David Freedman
39.	Statistics 4 th Edition	David Freedman

40.	A Textbook of Statistics	R.K. Soni
41.	Experimental Design and Statistical Methods	David R. Boniface
42.	Statistics 4 th Edition	David Freedman
43.	Statistical and Quantitative Methods	J.K. Sharma
44.	A Textbook of Statistics	R.K. Soni
45.	Statistics 4 th Edition	David Freedman
46.	Statistics 4 th Edition	David Freedman
47.	Planning, Analysis and Parameter Design Optimization	C.F. Jeff Wu
48.	Statistics 4 th Edition	Robert Pisani
49.	Introductory Mathematical Economics	Adil H. Mouhammed
50.	Research Methodology	U.K. SudhaNayak
51.	Research Methodology 2 nd Edition	Ranjit Kumar
52.	Monetary Economics 2 nd Edition	R. Cauvery
53.	Principles of economics 3 rd Edition	Robert H. Frank
54.	Economics, Efficiency & Farm Mechanisation	P. Narasimra Rao
55.	Principles of Marketing 7th Ed	Philip Kotler
56.	Economics 18th Ed	Paul A. Samuelson
57.	Basic Econometrics 4th Ed	Damodar N. Gujrati
58.	Marketing Research:With in a changing information Environment 2nd Ed	Jospeh F. Hair
59.	Economics 15th Ed	Mc Connell Brue
60.	Environmental Economics	Dodo Thampapillai
61.	Natural Resources Economics:An Introduction	Barry C. Field
62.	Agro Food Marketing	Ed:- D.I Padberg
63.	Introduction to Agribusiness	Cliff Ricketts
64.	Management 6th Ed	Richard L. Daft
65.	Microeconomimcs 17th Ed	Paul A. Samuelson
66.	Macroeconomics 17th Ed	Paul A. Samuelson
67.	Principles of Marketing 9th Ed	Philip Kotler
68.	Agricultural Economics 2nd Ed	H.Evan Drummond
69.	Agricultural Management Economics	Allen N. Rae
70.	Rural & Agriculture Marketing Opportunities Challenges	Mukesh Pandey
71.	Agricultural Economics 2nd Ed	H. Evan Drummond
72.	Inter-Act 10th Ed + CD ROM + Work Book	Kathleen S. Verderber
73.	Inter-Act 10th Ed + CD ROM + Work Book	Kathleen S. Verderber
74.	Principles of Economics 4th Ed.	Mankiw
75.	Principles of Economics 4th Ed.	Mankiw
76.	Agricultural Economics .. 8th Ed	Gail L. Cramer
77.	Agricultural Economics .. 8th Ed	Gail L. Cramer
78.	Farm Family Business (PB)	Gassan R.
79.	Methods For Examination Of Orgin	Hall G. S.
80.	Rural Change & Sustainability	Ensex S. J.
81.	Shifting Agriculture & Sustainable	Rmakrishnan P. V.
82.	Agriculture Economics	Lekhi R. K.

83.	Farm Management & Agriculture Marketing	Panda S. C.
84.	Agricultural Economics	S.Subba Reddy
85.	Agricultural Economics	S.Subba Reddy
86.	Agricultural Economics	S.Subba Reddy
87.	Textbook Of Agribusiness Management	Ac.Broadway
88.	Textbook Of Agribusiness Management	Ac.Broadway
89.	Textbook Of Agribusiness Management	Ac.Broadway
90.	Agriculture and The WTO	Merlinda D. Ingco
91.	Agriculture and The WTO	Merlinda D. Ingco
92.	Marginal Farmers and agricultural labourers	sarbigitsinghChinna
93.	Agriculture and rural poverty	M.L.Narasaiah
94.	Agriculture Economics and Agri Business 8 th Edition	Gail L. Cramer
95.	Microeconomic Analysis 3 rd Edition	Hal R. Varian
96.	The Economic Approaches to Environmental and Natural Resources 2 nd Edition	James R. Kahn
97.	Economic Development 11 th Edition	Stephen C. Smith
98.	Economics 16 th Edition	Paul A. Samuelson, Nordhaus
99.	Elementary Statistics Part-1	Prof. Nazeer Ahmed
100.	Economics 18 th Edition	Paul A. Samuelson, Nordhaus
101.	Scientific Social Surveys and Research	Pauline V. Young
102.	Practice and Law of Banking in Pakistan 6 th Edition	Asrar H. Siddiqi
103.	Effective Business Communications 7 th Edition	Herta A. Murphy
104.	The Pakistan Development Review Part-1	Syed NawabHaider Naqvi
105.	Agricultural Statistics of Pakistan 2001-2002	Ministry of Agriculture
106.	Actual Problems of Economics (Journal)	Mykola Yermoshenko
107.	Economics for a Developing World 3 rd Edition	Michael P Todaro