

# PROSPECTUS 2012



**Sher-e-Bangla Agricultural University**

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### **Vice-Chancellor's Message**

It is a great privilege for me to introduce the Sher-e-Bangla Agricultural University (SAU). It is located at Sher-e-Bangla Nagar, in the heart of Dhaka city on a beautiful green campus inherited from the then Bangladesh Agricultural Institute (BAI). SAU has started functioning as a University from the year 2001 with a single faculty, namely Faculty of Agriculture. Agribusiness Management, the second faculty has been started functioning from the year 2007.

The mission of the Sher-e-Bangla Agricultural University is based on the firm belief that Agricultural education, specially higher education provides a critical pathway to leadership development in the field of academic and research as well as more broadly in achieving sustainable agricultural development, economic progress and social development of the country.

Presently, SAU is offering undergraduate and post graduate degrees through course credit system to produce researchers, academicians and field level extension officers in the field of Agriculture to handle the issues like food production, poverty and hunger alleviation, food security, Protein Energy Malnutrition (PEM), Micro-Nutrient Deficiency (MND) and other related issues. About 130 highly qualified brilliant faculty members are shouldering the academic responsibilities as well as other research activities of the students. New technologies are being developed by potential researchers through Sher-e-Bangla Agricultural University Research System (SAURES). Outreach programme is set to disseminate the developed technologies in the farmer's field for the improvement of production.

I do believe that, the information provided in this prospectus will be very much helpful for all concern, specially for the interested students to get a clear picture about the courses taught and the facilities offered by the university.

**(Professor Dr. Md. Shah-E-Alam)**

Vice-Chancellor

Sher-e-Bangla Agricultural University, Dhaka

# Sher-e- Bangla Agricultural University

## 1. An Overview

Sher-e-Bangla Agricultural University (SAU) is located in the heart of the capital city, Dhaka with excellent public transportation facilities to reach the university. The SAU campus stands on 86.92 acres (35.19 ha) of picturesque land covered by green plantations.

The "Sher-e-Bangla Agricultural University Act 2001" was passed in the national Parliament on 09 July 2001. The foundation stone of the University was laid by the then Honorable Prime Minister Shiekh Hasina on 15 July 2001 and inaugurated the university activities through the appointment of the first Vice-Chancellor Professor Md. Shadat Ulla. The Sher-e-Bangla Agricultural University had started its formal functions on 11 September 2001 following the issuance of a notification by the Government as per requirement of the "Sher-e-Bangla Agricultural University Act 2001".

The BAI was established on December 11, 1938 by Sher-e-Bangla A.K. Fazlul Huq, the then Chief Minister of undivided Bengal. At that time the name of this institution was "The Bengal Agricultural Institute" was renamed "East Pakistan Agricultural Institute" in 1947. After the emergence of Bangladesh as an independent country in 1971, the name of the institute was spontaneously changed to Bangladesh Agricultural Institute (BAI). Since its inception in 1938, the BAI had been functioning as a "Faculty of Agriculture" under Dhaka University. Meanwhile with the establishment of Bangladesh Agricultural University (BAU) at Mymensingh in 1961 its academic function was transferred to BAU in 1964 till it's up gradation to Sher-e-Bangla Agricultural University in 2001.

Nearly 5500 graduates plus 665 postgraduates have so far been produced by the Sher-e-Bangla Agricultural University. Graduates of this University have been playing pioneer role in the development of agricultural system and agro-based economy of the country. They are involved in various national and international services ranging from civil service to UN assignments including UN peace keeping forces. Presently about 2000 undergraduate and postgraduate students are enrolled in this University and are taught by a total of 130 teachers.

The Sher-e-Bangla Agricultural University was established for the expansion of higher agricultural education and committed to promote research in various fields of agricultural sciences and to offer extension services. A number of research projects have been undertaken by the different departments of the University.

It has made a significant progress towards commencing collaborative research programmes with some foreign universities.

## 2. Faculties and the Departments

At present the SAU is functioning with three faculties, **Faculty of Agriculture, Faculty of Agribusiness Management and Faculty of Animal Science & Veterinary Medicine**. The names of the departments under these faculties are mentioned below:

## **2.1 Faculty of Agriculture**

- Department of Agronomy
- Department of Horticulture and Postharvest Technology
- Department of Soil Science
- Department of Agricultural Botany
- Department of Agricultural Extension and Information System
- Department of Entomology
- Department of Genetics and Plant Breeding
- Department of Plant Pathology
- Department of Agricultural Chemistry
- Department of Biochemistry
- Department of Agroforestry and Environmental Science
- Department of Animal Husbandry
- Department of Biotechnology
- Department of Agricultural Engineering
- Department of Language

## **2.2 Faculty of Agribusiness Management**

- Department of Agricultural Business and Marketing
- Department of Agricultural Economics.
- Department of Management and Finance
- Department of Agricultural Statistics
- Department of Development and Poverty Studies

## **Faculty of Animal Science & Veterinary Medicine**

- Department of Animal Production & Management
- Department of Animal Nutrition, Genetics & Breeding
- Department of Anatomy, Histology & Physiology
- Department of Dairy Science
- Department of Medicine & Public Health
- Department Microbiology & Para cytology
- Department Pathology
- Department Pharmacology & Toxicology
- Department Poultry Science
- Department Surgery & Theriogenology

## **2.3 Proposed Faculties**

### **Faculty of Fisheries and Aquaculture**

## **3. Halls of Residence**

The Sher-e-Bangla Agricultural University has three halls for male students and two for female students. Students admitted to the University have either to reside in or be attached to a hall of residence. A Provost assisted by Assistant Provosts looks after the administration of a hall. The names of the halls are:

- a) **Halls for male students:**
  - 1. Sher-e-Bangla Hall
  - 2. Siraj-ud-Doula Hall
  - 3. Kabi Kazi Nazrul Islam Hall
  
- b) **Hall for female students:**
  - 1. Begum Fazilatunnesa Mujib Hall
  - 2. Female Student's Hall (New Hall)

#### **4. Admission requirements for the B. Sc. Ag. (Hons.), B.Sc. Agribusiness Management (Hons.) and B. Sc. Vet. Sc & A. H. (Hons.) Courses**

Students fulfilling the following requirements are eligible to apply-

- a) S.S.C./ equivalent passed students from Science Group of the year 2008 or 2009.
- b) H.S.C./ equivalent passed students from Science Group of the year 2010 or 2011 having the subjects Physics, Chemistry, Mathematics and Biology, with a minimum GP 3.00 in each of these subjects.
- c) Securing a minimum GPA 3.00 in each of S.S.C. and H.S.C. examinations with a combined GPA 7.50.
- d) GP 3 is minimum requirement in both S.S.C. and H.S.C. examination in English

#### **5. Admission**

a) Admission to the undergraduate program will be carried out as per the Ordinance of students' admission in Sher-e-Bangla Agricultural University. The Registrar's office will deal with registration as well.

#### **6. Cancellation of Admission**

If a student fails to maintain on an average 70% of the class attendance of the courses before filling up of the form of the semester final examination of Level-1, Semester-I, his/her admission shall automatically stand cancelled.

#### **7. Admission to Masters and Ph. D Course**

A separate brochure is available at the office of the Dean (post Graduate Studies) and Deputy Registrar (Academic). The students interested to get admission into M.S or Ph. D course may obtain the same on payment of necessary charges.

#### **8. Admission of Foreign Students**

Foreign students interested for admission in any course of this University must apply well in advance through their respective mission in Bangladesh to the Ministry of Education, Government of the People's Republic of Bangladesh, Bangladesh Secretariat, Dhaka-1000 enclosing evidence of examinations passed and transcripts of academic accomplishments. After submission of application within the stipulated date, the admission committee of the university will review the candidate's eligibility for admission.

#### **9. Nomenclature of Degree**

The courses offered should lead to awarding the degree of -

- a) Bachelor of Science in Agriculture (Honours), abbreviated as B. Sc. Ag. (Hons.).
- b) Bachelor of Science in Agribusiness Management (Honours) abbreviated as B. Sc. Agribusiness Management (Hons.).
- c) Bachelor of Science in Veterinary Medicine & Animal Husbandry (Honours) abbreviated as B. Sc. Vet. Sc. & A. H (Hons.)

## 10. Duration of Degree Program

Each of the degree is a four years program divided into 8 academic semesters.

## 11. Academic Semester and Duration

There are two semesters (Semester-I and Semester-II) in an academic year. The semester-I will start in January and semester-II in July of each academic year.

The duration of each semester will be of 22 weeks as mentioned bellow:

Classes	16 weeks
Recess before Semester Final Examination	02 weeks
Semester Final Examination [Theory and Practical (approx.)]	02 weeks
Result preparation and publication	02 weeks
Total	22 weeks

For the candidates who would fail in maximum two courses, there will be make-up examinations at the end of each semester final examination. The student(s) obtained 'F' grade in one or two courses (maximum) in a semester will be allowed to enroll in the next semester if his/her GPA is 2.5 or above. However, he/she will have a second chance to sit for the first make-up examination (final) of failed course(s) paying a required amount of fees. If failed again in the first make-up examination, he/she will be allowed to sit for the 2nd make-up examination paying the required fees. If a student fails in his/her 1st and 2nd make-up examinations he/she will remain in his/her original semester.

## 12. Medium of Instruction

The medium of instruction in this University is English.

## 13. Type of Courses

The courses included in the undergraduate curricula are divided into the following groups.

- a) **Core/Compulsory Courses:** In each semester specific number of courses will be offered as core courses which are considered as compulsory courses.
  
- b) **Elective Courses:** There will be a number of courses which will be offered as elective courses. Students have to complete four elective courses out of a number of elective courses according to their choice. The chosen elective courses will be treated as compulsory courses.

## 14. Academic credit

When a student enrolls at Sher-e-Bangla Agricultural University, shall earn academic credits. In case of theoretical courses, one lecture per week per semester (16 weeks) will be equivalent to one credit i.e., for a 3-credit course; there will be three lectures per week per semester. In case of practical, one practical class of three hours per week per semester will be equivalent to two credits.

## 15. Limits on the Credit Hours to be taken

A student must get enrolled in the core courses designed in each semester. A student will not be allowed to enroll more than one elective course in a single semester. The credit earned in the elective courses will be added in GPA calculation.

## 16. Grading System

Numerical Grade	Letter Grade	Grade Point
80% or above	A+	4.00
75% to less than 80%	A	3.75
70% to less than 75%	A-	3.50
65% to less than 70%	B+	3.25
60% to less than 65%	B	3.00
55% to less than 60%	B-	2.75
50% to less than 55%	C+	2.50
45% to less than 50%	C	2.25
40% to less than 45%	D	2.00
Less than 40%	F (failed)	0.00

## 17. COURSE LAYOUT AND CREDIT HOURS FOR B.Sc. Ag. (Hons.) DEGREE

### LEVEL-1: SEMESTER-I

Courses	Course Code		Credit Hours	Total
	Theory	Practical	Theory + Practical	
<b>Compulsory Course</b>				
Fundamentals of Agronomy	AGRO 101	AGRO 102	2+2	4
Fundamentals of Agricultural Botany	ABOT 103	ABOT 104	2+2	4
Introductory Soil Science	SOIL 105	SOIL 106	2+2	4
Chemistry of Fertilizer and Radio-tracer Technique	AGCH 107	AGCH 108	3+2	5
Agricultural Economics	AERS 109	-	3+0	3
<b>TOTAL</b>			12+8	20
<b>Elective Course</b>				
English	ENGL 131	-	2+0	2

### LEVEL-1: SEMESTER-II

Courses	Course Code		Credit Hours	Total
	Theory	Practical	Theory + Practical	
<b>Compulsory Course</b>				
Floriculture and Landscaping	HORT 151	HORT 152	2+2	4
Rural Sociology	AGEC 153	-	2+0	2
Chemistry of Biomolecules	BIOC 155	BIOC 156	2+2	4
Livestock Production	ANIM 157	ANIM 158	3+2	5
Farm Mechanics	FAME 159	FAME 160	3+2	5
<b>TOTAL</b>			12+8	20
<b>Elective Course</b>				
Integrated Fish Culture	FISH 181	-	2+0	2

**LEVEL-2: SEMESTER-I**

Courses	Course Code		Credit Hours	Total
	Theory	Practical	Theory + Practical	
<b>Compulsory Course</b>				
Vegetable Production	HORT 201	HORT 202	3+2	5
Cytology and Cytogenetic	GEPB 203	GEPB 204	2+2	4
Introduction to Plant Pathology	PLPA 205	PLPA 206	2+2	4
Introduction to Agricultural Extension	AEIS 207	AEIS 208	2+2	4
Metabolism and Food Nutrition	BIOC 209	BIOC 210	2+2	4
<b>TOTAL</b>			11+10	21
<b>Elective Course</b>				
Sustainable Agriculture	AGRO 231	-	2+0	2
<b>TOTAL</b>			2+0	2

**LEVEL-2: SEMESTER-II**

Courses	Course Code		Credit Hours	Total
	Theory	Practical	Theory + Practical	
<b>Compulsory Course</b>				
Seed Science & Technology	AGRO 251	AGRO 252	2+2	4
Introductory Entomology	ENTO 253	ENTO 254	3+2	5
Soil Classification, Survey and conservation	SOIL 255	SOIL 256	2+2	4
Plant Physiology	ABOT 257	ABOT 258	3+2	5
Agroforestry	AFES 259	AFES 260	3+2	5
<b>TOTAL</b>			13+10	23
<b>Elective Course</b>				
Nursery Management of Horticultural Crops	HORT 281	-	2+0	2
<b>TOTAL</b>			2+0	2

**LEVEL-3: SEMESTER-I**

Courses	Course Code		Credit Hours	Total
	Theory	Practical	Theory + Practical	
<b>Compulsory Course</b>				
Vegetable Seeds and Spices	HORT 301	HORT 302	2+2	4
Genetics	GEPB 305	GEPB 306	3+2	5
Insect Physiology and Pest Management	ENTO 307	ENTO 308	2+2	4
Agricultural Statistics	AGST 309	AGST 310	3+2	5
In-vitro Culture	BIOT 359	BIOT 360	3+2	5
<b>TOTAL</b>			13+10	23
<b>Elective Course</b>				
Application of GIS in Agriculture	AEIS 383	-	2+0	2
Environment Science	AFES 335	-	2+0	2
Applied Entomology	ENTO 233	-	2+0	2
<b>TOTAL</b>			6+0	6



**LEVEL-3: SEMESTER-II**

Courses	Course Code		Credit Hours	Total
	Theory	Practical	Theory + Practical	
<b>Compulsory Course</b>				
Soil Physics and Soil Chemistry	SOIL 303	SOIL 304	2+2	4
Weed Science	AGRO 351	AGRO 352	2+2	4
Principles of Plant Pathology & Disease of Field Crops	PLPA 353	PLPA 354	3+2	5
Extension communication & Technology Transfer	AEIS 355	AEIS 356	3+2	5
Agro-Industrial Chemistry	AGCH 357	AGCH 358	3+2	5
<b>TOTAL</b>			13+10	23
<b>Elective Course</b>				
Heterosis and Hybrid Breeding Technology	GEPB 381			
Computer Packages	AGST 385	-	2+0	2
		-	2+0	2
<b>TOTAL</b>			4+0	4

**LEVEL-4: SEMESTER-I**

Courses	Course Code		Credit Hours	Total
	Theory	Practical	Theory + Practical	
<b>Compulsory Course</b>				
Crop Production Technology	AGRO 401	AGRO 402	3+2	5
Soil Fertility & Soil Microbiology	SOIL 403	SOIL 404	3+2	5
Plant Ecology	ABOT 405	ABOT 406	3+2	5
Extension Organization & Management	AEIS 407	AEIS 408	3+2	5
<b>TOTAL</b>			12+8	20
<b>Elective Course</b>				
Clinical Plant Pathology	PLPA 431	-	2+0	2
Soil Pollution & Environmental Degradation	SOIL 481	-	2+0	2
<b>TOTAL</b>			4+0	4

**LEVEL- 4: SEMESTER-II**

Courses	Course Code		Credit Hours	Total
	Theory	Practical	Theory + Practical	
<b>Compulsory Course</b>				
Farm and Farming System	AGRO 451	AGRO 452	2+2	4
Fruit Production & Orchard Management	HORT 453	HORT 454	3+2	5
Plant Breeding	GEPB 455	GEPB 456	3+2	5
Disease of Horticultural Crops & Seed Pathology	PLPA 457	PLPA 458	3+2	5
Insect Ecology & Economic Entomology	ENTO 459	ENTO 460	3+2	5
<b>TOTAL</b>			14+10	24
<b>Elective Course</b>				
Genetic Engineering	BIOT 433	-	2+0	2
Agro Climatology	ABOT 483	-	2+0	2
<b>TOTAL</b>			4+0	4

DEPARTMENT WISE COMPULSORY COURSES WITH CREDITS			
Agronomy	11+10= 21	Agricultural Chemistry	06+04= 10
Horticulture and Postharvest Technology	10+08= 18	Biochemistry	04+04= 08
Soil Science	09+08= 17	Agricultural Statistics	03+02= 05
Agricultural Botany	08+06= 14	Agricultural Economics and Rural Sociology	05+00= 05
Agricultural Extension & Information System	08+06= 14	Agroforestry and Environmental Science	03+02= 05
Entomology	08+06= 14	Animal Husbandry	03+02= 05
Genetics and Plant Breeding	08+06= 14	Biotechnology	03+02= 05
Plant Pathology	08+06= 14	Farm Mechanics	03+02= 05

DEPARTMENT WISE ELECTIVE COURSES WITH CREDITS			
Agronomy	02	Plant Pathology	02
Horticulture and Postharvest Technology	02	Agricultural Statistics	02
Soil Science	02	Agroforestry	02
Agricultural Botany	02	Fisheries	02
Agricultural Extension & Information System	02	Biotechnology	02
Entomology	02	English	02
Genetics and Plant Breeding	02		

**Total Credit Hours for Compulsory Courses:**

i) Theory	= 100
ii) Practical	= 74
iii) Elective	= 8

Total credit Hours for B.Sc.Ag. (Hons.) Course = 182

Total Number of Compulsory courses = 39

Total Number of Elective Courses = 13

Total Number of courses = 52

**18. COURSE LAYOUT AND CREDIT HOURS FOR B.Sc. Agribusiness Management (Hons.) DEGREE.**

**Total Credit Hours: 160**

Level	Credit Hours		
	Theory	Practical	Total
Level-1 Semester-I	15	4	19
Level-1 Semester-II	18	2	20
Level-2 Semester-I	18	4	22
Level-2 Semester-II	14	6	20
Level-3 Semester-I	16	4	20
Level-3 Semester-II	18	2	20
Level-4 Semester-I	17	4	21
Level-4 Semester-II	15	3	18
	<b>131</b>	<b>29</b>	<b>160</b>

### Level-1 Semester-I

Sl. No.	Course Title	Course Code		Credit Hours		
		Theory	Practical	Theory	Practical	Total
1.	Basic English	ENGL 101	-	3	-	3
2.	Principles of Field Crop Management	AGRO 103	AGRO 104	3	2	5
3.	Introduction to Business	AGBM 101	-	3	-	3
4.	Principles of Economics	AGEC 101	-	3	-	3
5.	Fisheries Resource Management	FISH 107	FISH 108	3	2	5
<b>Total</b>				<b>15</b>	<b>4</b>	<b>19</b>

### Level -1 Semester-II

Sl. No.	Course Title	Course Code		Credit Hours		
		Theory	Practical	Theory	Practical	Total
1.	Communicative English	ENGL 103		3	-	3
2.	Principles of Horticultural Crop Management	HORT 105	HORT 106	3	2	5
3.	Sociology	DSPS 101	-	3	-	3
4.	Introduction to Agricultural Economics	AGEC 103	-	3	-	3
5.	Introduction to Computer Applications	AGBM 105	-	3	-	3
6.	Introduction to Agribusiness	AGBM 103	-	3	-	3
<b>Total</b>				<b>18</b>	<b>2</b>	<b>20</b>

### Level - 2 semester-I

Sl. No.	Course Title	Course Code		Credit Hours		
		Theory	Practical	Theory	Practical	Total
1.	Introduction to Statistics	AGST 201	AGST 202	3	2	5
2.	Management of Livestock and Poultry	ANIM 207	ANIM 208	3	2	5
3.	Principles of Management	MAFI 203	-	3	-	3
4.	Principles of Accounting	MAFI 205	-	3	-	3
5.	Micro Economics	AGEC 205	-	3	-	3
6.	Business Mathematics	AGBM 205	-	3	-	3
<b>Total</b>				<b>18</b>	<b>4</b>	<b>22</b>

### Level - 2 Semester-II

Sl. No.	Course Title	Course Code		Credit Hours		
		Theory	Practical	Theory	Practical	Total
1.	Business Statistics	AGST 205	AGST 206	3	2	5
2.	Agricultural Marketing	AGBM 209	-	3	-	3
3.	Macro Economics	AGEC 207	-	3	-	3
4.	Food Technology	FAME 209	FAME 210	3	2	5
5.	Crop Protection Strategy-1	ENTO 207	ENTO 208	2	2	4
<b>Total</b>				<b>14</b>	<b>6</b>	<b>20</b>

### Level - 3 Semester-I

Sl. No.	Course Title	Course Code		Credit Hours		
		Theory	Practical	Theory	Practical	Total
1.	State and Local Government	DSPS 305	-	3	-	3
2.	Poverty Studies	DSPS 307	-	2	-	2
3.	Crop Protection Strategy-2	PLPA 311	PLPA 312	2	2	4
4.	Organizational Behavior	MAFI 307	-	3	-	3
5.	Agricultural Finance	MAFI 311	-	3	-	3
6.	Business Research Methodology	AGBM 311	AGBM 312	3	2	5
<b>Total</b>				<b>16</b>	<b>4</b>	<b>20</b>

### Level - 3 Semester-II

Sl. No.	Course Title	Course Code		Credit Hours		
		Theory	Practical	Theory	Practical	Total
1.	Bangladesh Studies	DSPS 309	-	3	-	3
2.	Crop Improvement Strategy	GEPB 309	GEPB 310	3	2	5
3.	World Food and Agricultural System	AGEC 311	-	3	-	3
4.	Food Marketing	AGBM 313	-	3	-	3
5.	Human Resources Management	MAFI 313	-	3	-	3
6.	Business Law	AGBM 315	-	3	-	3
<b>Total</b>				<b>18</b>	<b>2</b>	<b>20</b>

### Level - 4 Semester-I

Sl. No.	Course Title	Course Code		Credit Hours		
		Theory	Practical	Theory	Practical	Total
1.	Business Communication	AGBM 417	-	2	-	2
2.	Agricultural Price Analysis	AGEC 413	AGEC 414	3	2	5
3.	Management Information Systems	MAFI 415	MAFI 416	3	2	5
4.	Small and Medium Enterprise Development	AGBM 419	-	3	-	3
5.	International Business	AGBM 421	-	3	-	3
6.	Consumer Behavior	AGBM 423	-	3	-	3
<b>Total</b>				<b>17</b>	<b>4</b>	<b>21</b>

### Level - 4 Semester-II

Sl. No.	Course Title	Course Code		Credit Hours		
		Theory	Practical	Theory	Practical	Total
1.	Development Studies	DSPS 409	-	3	-	3
2.	Agricultural Risk Management	MAFI 417	-	3	-	3
3.	Business Ethics and Corporate Social Responsibility	AGBM 425	-	3	-	3
4.	Agribusiness Strategy	AGBM 427	-	3	-	3
5.	Environmental Economics	AGEC 415	-	3	-	3
6.	Project Paper	-	AGBM 430	-	3	3
<b>Total</b>				<b>15</b>	<b>3</b>	<b>18</b>

