স্মারক: বিএসি/ অ্যাক্রেডিটেশন/ডিএসইসি/২০২২/ ৭৭৪

তারিখ :   ০৩ ফাল্গুন ১৪২৯ বঙ্গাব্দ
১৬ ফেব্রুয়ারি ২০২৩ খ্রিস্টাব্দ

বিষয়: Discipline Specific/ Subject Specific বিশেষজ্ঞ কমিটি সংক্রান্ত।

প্রিয় মহোদয়,

বাংলাদেশ অ্যাক্রেডিটেশন কাউন্সিলের পক্ষ হতে আপনাকে শুভেচ্ছা। কাউন্সিল দেশের উচ্চ শিক্ষার মান নিশ্চিতকরণের লক্ষ্যে উচ্চ শিক্ষা প্রতিষ্ঠান এবং একাডেমিক প্রোগ্রামের অ্যাক্রেডিটেশন বিষয়ে কাজ করছে। অ্যাকাডেমিক প্রোগ্রাম পর্যায়ে অ্যাক্রেডিটেশন প্রদানের লক্ষ্যে ১০টি মানদন্ড ও ৬৩টি নির্ণায়ক অনুমোদিত হয়েছে। ৬৩টি নির্ণায়কের মধ্যে ৯টি নির্ণায়ক সুনির্দিষ্টভাবে ডিসিপ্লিন/বিষয় ভিত্তিক। অ্যাকাডেমিক প্রোগ্রাম পর্যায়ে অর্থবহ স্ব-নিরূপণের জন্য ও মানসম্পন্ন শিক্ষা নিশ্চিতকরণে ডিসিপ্লিন/বিষয় ভিত্তিক আবশ্যিক বিষয়াদি সুনির্দিষ্টকরণ অত্যাবশ্যক। ডিসিপ্লিন/বিষয় ভিত্তিক আবশ্যিক বিষয়াদি সুনির্দিষ্টকরণের জন্য কাউন্সিল কর্তৃক ইতোমধ্যে ১২টি বিষয়ের বিশেষজ্ঞ কমিটি নির্বাচন করা হয়েছে। এরমধ্যে ৭টি বিষয়ের ডিসিপ্লিন ভিত্তিক আবশ্যিক বিষয়াদি সুনির্দিষ্টকরণ সম্পন্ন হয়েছে ও ৫টি বিষয়ের ডিসিপ্লিন ভিত্তিক আবশ্যিক বিষয়াদি সুনির্দিষ্টকরণের কাজ চলমান রয়েছে। উক্ত কার্যক্রমকে সফল্যমন্ডিত করতে জুম মিটিং অথবা ফোন মারফত আপনার বিশ্ববিদ্যালয়ের তথ্য প্রাপ্তির সার্বিক সহযোগিতা বিশেষজ্ঞগণের একান্ত কাম্য বিধায় বিষয়টি আপনার বিশ্ববিদ্যালয়ের সংশ্লিষ্ট বিভাগসমূহকে অবগত করার জন্য অনুরোধ করা হলো। এছাড়া প্রয়োজনবোধে উল্লিখিত বিষয়সমূহের অ্যাক্রেডিটেশন সংক্রান্ত যে কোন পরামর্শের জন্য বিশ্ববিদ্যালয়সমূহ নির্বাচিত বিশেষজ্ঞ কমিটির সাথে যোগাযোগ করতে পারেন। ১২টি বিষয় ও বিষয়সমূহের নির্বাচিত বিশেষজ্ঞ কমিটি নিম্নে সংযুক্ত করা হলো।

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১৬/০২/২৬

(নাসির উদ্দীন আহাম্মেদ)

পরিচালক (অ্যাক্রেডিটেশন)

বাংলাদেশ অ্যাক্রেডিটেশন কাউন্সিল

ফোন: ০২-২২২২২৪১৭২

মোবাইল নং: ০১৭১১-২৭০০৭৪

ই-মেইল: nasiratul@gmail.com

রেজিস্ট্রার

------------- বিশ্ববিদ্যালয়।

অবগতির জন্য অনুলিপি (জ্যেষ্ঠতার ভিত্তিতে নয়):

১) সদস্য (অ্যাক্রেডিটেশন), বাংলাদেশ অ্যাক্রেডিটেশন কাউন্সিল, ঢাকা;

২) পরিচালক (আইকিউএসি), ... বিশ্ববিদ্যালয়।

৩) চেয়ারম্যান মহোদয়ের একান্ত সচিব (উপপরিচালক), বাংলাদেশ অ্যাক্রেডিটেশন কাউন্সিল, ঢাকা;

৪) অফিস কপি।

Discipline Specific Requirements for Undergraduate and Graduate Program in Forestry

Standard 1: Governance

Criterion 1-5: The HEI/POE has a documented class size policy and maintains class size that is appropriate for effective management of the teaching-learning-assessment to ensure better attainment of learning outcomes.

Class size (number of students in a class): maximum of 40 for theoretical lecture classes.

In case of sessional/ lab courses, the optimum class size will be a maximum of 20

In case of field work/ external visit, the optimum class size will be a maximum of 40

Standard 4: Curriculum

Criterion 4-7: In case of Bachelor degree program curriculum includes minimum 25% of total credits for general education courses with clearly defined course learning outcomes and mapped with PLOs and learning outcome domains of BNQF. In case of Master's degree program curriculum includes minimum 10% of total credits for general education courses with clearly defined course learning outcomes and mapped with PLOs and learning outcome domains of BNQF.

List of a few general education courses:

(POE will select appropriate GED courses considering the Graduate attributes and PLOs):

1. Communicative English	8. Environmental Anthropology
2. Introduction to Environmental Science	9. History and Emergence of Bangladesh
3. Sociology	10. Climatology
4. Surveying	11. Principles of Economics
5. Aerial Photogrammetry, Remote Sensing and GIS	12. Principles and Practices of Ethics
6. Environmental Impact Assessment and Management	13. Entrepreneurship Development
	14. Disaster Management and Risk Assessment
7. Cost and Management Accounting	15. Public Administration

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Criterion 4-9: Provisions of internship/project/dissertation/field work/work integrated learning opportunities are included in the curriculum.

Provisions of work/work integrated learning opportunities

Project Thesis

Field Work Field

Standard 6: Student Admission & Support Services

Criterion 6-1: The HEI/POE maintains a clearly defined and well-communicated admission policy with transfer and withdrawal provisions, entry requirements that reflect the level of qualifications required to match with the nature of the discipline and mission of the POE. Admission policy is effective to select students who have potentials and are able to afford the academic load to complete the program successfully.

Requisite qualifications for admission in the Bachelor Degree (Undergraduate) program:

HSC with Physics, Chemistry Biology and Mathematics

To bridge the gap and to improve requisite qualifications, a short pre-program course/module may be introduced as needed.

Requisite qualifications for admission in the Master Degree (Graduate) program:

Candidates seeking admission to a Master program must possess a four-year bachelor degree from a recognized university with 16 years schooling and a minimum CGPA 2.50 in a scale of 4.0 or 2nd class. In addition, applicants having equivalent degrees will be eligible for admission into this program which shall be determined by the MS admission committee/academic committee. A short and comprehensive assessment test (applicable for all) will be taken to select the qualified candidates for the program. Other terms and conditions will be revised periodically by the appropriate authority as and when deemed necessary.

Criterion 6-7: POE ensures and facilitates the participation of students in co-curricular activities and community services under the management of the HEI on a regular basis to promote creativity, social responsiveness, leadership qualities, values, molding personality towards holistic development.

The followings are some of the co-curriculum activities related to the program

(POE will select the appropriate Co-curricular activities considering the PLOs):

1. Student club
2. Community outreach activities
3. Sports and recreation
4. Physical education (BNCC and others)
5. Exchange program/ visit
6. Leadership events and fair

Standard 7: Faculty and Professional Staff

Criterion 7-8: The POE maintains ideal combination of faculty with 10% Professor, 20% Associate Professor, 40% Assistant Professor and 30% Lecturer with reasonable teacher student's ratio, depending on the nature of discipline, as necessary for effective teaching learning in the academic program/discipline.

Teacher-Student ratio should be (Maximum)1:12

Standard 8: Facilities & Resources

Criterion 8-4: Laboratory facilities, instructional technology & software, IT learning facilities that are identified through curriculum mapping as necessary to attain the defined learning outcomes of program and course(s) and to conduct research are in good condition with appropriate safety measures, appropriate, adequate and accessible when needed by the students and faculty members under a policy that ensures timely repair/replacement, supply and continuous improvement.

List of the Major Laboratories:

1. Soil Science and Nutrient Dynamics Lab
2. Bio-nanomaterial Lab
3. Wood Science Lab
4. Eco-physiology Lab
5. Forest Inventory Lab
6. Forest Engineering Lab
7. Forest Protection, Pathology and Microbiology Lab
8. Silviculture Lab
9. Survey, Design and Drafting Lab
10. Physics Lab
11. Chemistry Lab
12. Environmental Science Lab

List of other facilities essential for the discipline:

Forest Nursery, Green House, Woodworking workshop, Experimental plantation site, Agroforestry Demonstration plot.

Field study/ field trip: In addition to ensuring on campus physical and laboratory facilities, a well-designed field trip plan needs to be in place. Semester specific field trip plans should be described in the program to facilitate smooth arrangement of the trips mentioning their objectives, goals and place of visit. These objectives must match with the program and course learning outcomes.

Approved
Discipline- Specific Requirements for
Business Program (BBA and MBA)

Standard 1: Governance

Criterion 1-5: The HEI/POE has a documented class size policy and maintains class size that is appropriate for effective management of the teaching-learning-assessment to ensure better attainment of learning outcomes.

a) Number of students in a class without Lab Maximum: 40

b) Class size for Lab Class maximum: 20

c) Industry Visit maximum: 18 Students

a) For some lab-based class maximum of 20 students (For example cuisine creation, catering service, front desk operation, selling and negotiation, communication creative, technology, housekeeping, etc.)

Standard 4: Curriculum:

Criterion 4-7: In case of Bachelor degree program curriculum includes minimum 25% of total credits for general education courses with clearly defined course learning outcomes and mapped with PLOs and learning outcome domains of BNQF. In case of Master's degree program curriculum includes minimum 10% of total credits for general education courses with clearly defined course learning outcomes and mapped with PLOs and learning outcome domains of BNQF.

List of General Education courses:

(PoE will select appropriate courses considering the PLOs)

1. History of the Emergence of Bangladesh	11. Introduction to Development Studies
2. Study of Bengal and the Bengali Renaissance	12. Foreign Language other than English
	13. Principles of Public Relations
3. English Reading, Writing and Speaking Skills and Public Presentation	14. Globalization, Development and Change

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4. Career Planning and Development	15.Contemporary Social Security Studies
5. Ethics and Social Issues	16.Professional Ethics
6. Ecological System and Environment	17.Science and Technology
7. Introduction to Psychology	18.Sports and Culture
8. Political Thoughts	19.Sustainable Development, etc.
9. Introduction to Philosophy	20. Bangla Language and Literature
10.Introduction to Social Psychology	21.International Relations
	22.Human Rights and Governance

Criterion 4-9: Provisions of internship/project/dissertation/field work/work integrated learning opportunities are included in the curriculum.

Provision of work integrated learning

For BBA program either any or any mix of the following:	For MBA program any or any mix of the following:
a) Internship	a) Internship in a company for minimum one semester in managerial position
b) Fieldwork	b) Case studies and application models
c) Projects	c) Management Research
d) Exhibition	d) Action Consultancy
e) demonstration	

Standard 6: Students Admission and Support services

Criterion 6-1: The HEI/POE maintains a clearly defined and well-communicated admission policy with transfer and withdrawal provisions, entry requirements that reflect the level of qualifications required to match with the nature of the discipline and mission of the POE. Admission policy is effective to select students who have potentials and are able to afford the academic load to complete the program successfully.

Requisite qualifications for admission in BBA and MBA program:

For BBA program	Mandatory Requisites for MBA Admission
a) HSC and or Equivalent	a) Undergraduate degree from any discipline
b) Any discipline	
Other Qualifications	b) Work experience minimum one year in executive level
a) Capacity for critical thinking	a) Communication skills
b) Communication skills	b) Quantitative Analysis
c) Knowledge on National affairs	c) Knowledge of country and national Heritage
d) Co-curricular activities	

Criterion 6-7: POE ensures and facilitates the participation of students in co-curricular activities and community services under the management of the HEI on a regular basis to promote creativity, social responsiveness, leadership qualities, values, molding personality towards holistic development.

List of co-curricular activities to support and strengthen self-respect and general respect for others for BBA graduates, for example;

1. Community engagement/service	13. Debates
2. Foreign language (Other than English)	14. Organizing exhibitions
3. Student Council	15. Business competition
4. Sports	16. Blood donation activities
5. Clubs/ Organizations/ Societies	17. Play on theater
6. Volunteering	18. Field visits
7. Peer Tutoring	19. Fieldwork
8. Attending exchange program abroad	20. Travelling
9. Fund Raising	21. Painting, etc.
10. Cleaning academic premises	22. Book clubs
11. Organizing/participating cultural events	23. School magazine editor
12. Story-writing	24. Poetry recitation

(Note: POE will select appropriate co-curricular activities considering the defined GA & PLOs)

Standard 7: Faculty and Professional staff

Criterion 7-8: The POE maintains ideal combination of faculty with 10% Professor, 20% Associate Professor, 40% Assistant Professor and 30% Lecturer with reasonable teacher student's ratio, depending on the nature of discipline, as necessary for effective teaching learning in the academic program/discipline.

Teacher and student ratio Maximum 1:25

Standard 8: Facilities and resources

Criterion 8-4: Laboratory facilities, instructional technology & software, IT learning facilities that are identified through curriculum mapping as necessary to attain the defined learning outcomes of program and course(s) and to conduct research are in good condition with appropriate safety measures, appropriate, adequate and accessible when needed by the students and faculty members under a policy that ensures timely repair/replacement, supply and continuous improvement.

a) List of Essential Labs:
  i)   Computer Lab
  ii) Business Solution Lab

b) Following labs, for example, may be established depending upon learning outcomes

  i) Behavioral Science Lab   ii) Media and Communication Lab;
  iii) List of instructional technology and Software   iv) Big Data Analytics Lab
  v) Disaster Management Lab   vi) Cultural and Creativity Lab
  vii) Cuisine Lab, etc.

Approved
Discipline-Specific Requirements for Veterinary Degree Program

Standard 1: Governance

Criterion 1-5: The HEI/POE has a documented class size policy and maintains class size that is appropriate for effective management of the teaching-learning-assessment to ensure better attainment of learning outcomes.

Class size (number of students in a class) maximum: 40

Class size (number of students in a practical class) maximum: 20

Standard 4: Curriculum

Criterion 4-7: In case of Bachelor degree program curriculum includes minimum 25%of total credits for general education courses with clearly defined course learning outcomes and mapped with PLOs and learning outcome domains of BNQF. In case of Master's degree program curriculum includes minimum 10%of total credits for general education courses with clearly defined course learning outcomes and mapped with PLOs and learning outcome domains of BNQF.

List of general education courses:

(POE will select the appropriate courses considering the graduate attributes and PLOs)

1) Communicative English	12) Bengali Literature
2) French	13) English Literature
3) German	14) History of Bangladesh
4) ICT	15) World History
5) Sociology	16) Civilization and Culture
6) Anthropology	17) Gender and Development
7) Economics	18) Public Administration and Governance
8) Agribusiness	19) Development Studies
9) Entrepreneurship	20) Human Rights
10) Environmental Science	21) Psychology
11) Bioinformatics	

Criterion 4-9: Provisions of internship/project/dissertation/field work/work integrated learning opportunities are included in the curriculum.

Work integrated learning opportunities:

(a) Field visits related to meat inspection, food safety, farm management and biosecurity, manufacturing process and HACCP principles in pharmaceutical plants, feed mills and processing plants, etc. should be the integral parts of the curriculum.

(b) Supervised ambulatory clinical services should constitute a significant part of the clinical teaching.

(c) Final year students must undertake an internship program for a period of minimum six months

Standard 6: Student Admission & Support Services

Criterion 6-1: The HEI/POE maintains a clearly defined and well-communicated admission policy with transfer and withdrawal provisions, entry requirements that reflect the level of qualifications required to match with the nature of the discipline and mission of the POE. Admission policy is effective to select students who have potentials and are able to afford the academic load to complete the program successfully.

Requisite qualifications for admission:

HSC or equivalent with Physics, Chemistry, Biology and Mathematics.

Ideally the admission test should be designed to judge the aptitude of the candidates for veterinary education.

Criterion 6-7: POE ensures and facilitates the participation of students in co-curricular activities and community services under the management of the HEI on a regular basis to promote creativity, social responsiveness, leadership qualities, values, molding personality towards holistic development.

List co-curricular activities to support the defined graduates' attributes (GA):

(POE will encourage students to participate co-curricular activities for holistic development of the graduates)

1) Community service programs like Vaccination Campaign, Veterinary Service Campaign (under the supervision of registered vets) in the rural areas of our country

2) Participation in different students' philanthropic clubs or organizations responding to societal needs and environment issues like blood donation, campus cleanliness, etc., as well responding to natural calamities and disasters

3) Observance of special days relevant to veterinary science and public health

4) Social awareness building programs on issues related to veterinary science and public health

5) Academic competitions like Veterinary Olympiad, topical debates, etc.

6) Cultural program and games

7) Participation in scientific seminar and conferences

8) Special events to facilitate the interaction of students with alumni, employers and entrepreneurs

Standard 7: Faculty and Professional Staff

Criterion 7-8: The POE maintains ideal combination of faculty with 10% Professor, 20% Associate Professor, 40% Assistant Professor and 30% Lecturer with reasonable teacher student's ratio, depending on the nature of discipline, as necessary for effective teaching learning in the academic program/discipline.

Teacher-Student ratio (Maximum): 1:12

Teacher-student ratio for hospital-based teaching and practice is maximum 1:4

Standard 8: Facilities & Resources

Criterion 8-4: Laboratory facilities, instructional technology & software, IT learning facilities that are identified through curriculum mapping as necessary to attain the defined learning outcomes of program and course(s) and to conduct research are in good condition with appropriate safety measures, appropriate, adequate and accessible when needed by the students and faculty members under a policy that ensures timely repair/replacement, supply and continuous improvement.

Essential Laboratory Facilities:

1) Anatomy	8) Microbiology
2) Histology	9) Food hygiene and food safety
3) Physiology	10) Pathology
4) Biochemistry	11) Pharmacology & Pharmacy

5) Nutrition 6) Genetics & Breeding 7) Parasitology	12) Toxicology 13) Epidemiology, etc. 14) Andrology & Artificial Insemination (AI) Lab 15) Phantom Hall Practice on Obstetrics, Gynecology, AI

Veterinary teaching hospital:

The veterinary teaching hospital is an essential component of a veterinary education entity. The hospital must be equipped with necessary facilities for medical and surgical treatment of out-door and in-door patients including:

1. Reception 2. Animal inspection rooms 3. Stalls and pens for indoor patients 4. Clinical pathology laboratory 5. Radiology & Imaging including Ultrasonography laboratory 6. Operation theatres for small and large animals	7. Post operative care rooms 8. Pharmacy and dispensary 9. Indoor Patient Yeard 10. Necropsy room 11. Tutorial class rooms and clinical seminar rooms with audio-visual facilities.

The veterinary teaching hospital must have vehicles for ambulatory clinical services for on-farm clinical teaching and services.

Livestock farms:

Veterinary education entity must have its own livestock farms for all common livestock species or must have access to such farms for students' practical teaching. The farms should have

- Modern animal sheds for different species of livestock
- Poultry hatchery equipment
- Milking equipment
- Other essential husbandry accessories
- Poultry science laboratory
- Dairy technology laboratory

Other facilities:

Veterinary students must have access to either hard copies or digital version of veterinary text books, reference books and journals. The library should have sufficient numbers of hard copies of all the updated text books with e-resources.

The students must have access to computer labs and internet facilities.

Other requirements that are important for quality education in the discipline:

Veterinary education in Bangladesh is governed by the Bangladesh Veterinary Council (BVC) as per Bangladesh Veterinary Council Act 2019. Veterinary graduates must get registration from the BVC to practice veterinary medicine, surgery and obstetrics. A veterinary degree offering institute must comply with the minimum standards of veterinary education as defined by the BVC for its graduates to qualify for registration.

Approved

Discipline Specific Requirements for
Bachelor of Science in Agriculture (Hons.)/B.S. Agriculture

Standard 1: Governance

Criterion 1-5: The HEI/POE has a documented class size policy and maintains class size that is appropriate for effective management of the teaching-learning-assessment to ensure better attainment of learning outcomes.

Class size (number of students in a class) for theoretical class is maximum: 40

Class size (number of students in a class) for practical class is maximum : 20

Standard 4: Curriculum

Criterion 4-7: In case of Bachelor degree program curriculum includes minimum 25% of total credits for general education courses with clearly defined course learning outcomes and mapped with PLOs and learning outcome domains of BNQF. In case of Master's degree program curriculum includes minimum 10% of total credits for general education courses with clearly defined course learning outcomes and mapped with PLOs and learning outcome domains of BNQF.

List of general education courses:

(POE will select appropriate courses considering the PLOs)

1) Bangladesh Studies	9) History of Emergence of Bangladesh
2) Communicative English	10) Ethics and Professionalism
3) ICT/CSE	11) Political Economics
4) Sociology	12) Public Policy
5) Anthropology	13) Other languages (except Bangla and English
6) Entrepreneurship	
7) Food Processing and Preservation	14) Disaster Management
8) Agriculture Renaissance and Bangladesh	15) Smart Agriculture
	16) Psychology
	17) Bengali Culture and Literature

Criterion 4-9: Provisions of internship/project/dissertation/field work/work integrated learning opportunities are included in the curriculum.

Internship/Project work/Research/Field work is the essential part of curriculum

Duration of internship/ Project work/Research work is minimum three (03 month).

Standard 6: Student Admission & Support Services

Criterion 6-1: The HEI/POE maintains a clearly defined and well-communicated admission policy with transfer and withdrawal provisions, entry requirements that reflect the level of qualifications required to match with the nature of the discipline and mission of the POE. Admission policy is effective to select students who have potentials and are able to afford the academic load to complete the program successfully.

Requisite qualification for admission in the Bachelor of Science in Agriculture (Hons.)/ B.S. Agriculture degree (Undergraduate) program:

HSC/Equivalent education (12 Years Schooling) with Biology, Mathematics, Physics and Chemistry

   a)   Admission test based on H.S.C/Equivalent curricula

   b)   Discipline Oriented Aptitude Test

Criterion 6-7: POE ensures and facilitates the participation of students in co-curricular activities and community services under the management of the HEI on a regular basis to promote creativity, social responsiveness, leadership qualities, values, molding personality towards holistic development.

List of Co-curricular activities to support attainment of defined graduate attributes:

(PoE will select appropriate Co-curricular activity(ies) considering Graduate Attributes)

1) Rotary club	16) Badminton Club Swimming club
2) Red crescent society	17) Cycling club
3) Rover scout	18) Athletic club
4) Skill development society/club	19) English club
5) Debating club	20) Public speaking club
6) Blood donation club	21) Green voice
7) Cultural club (Drama, music, variety show etc.)	22) Green campus
	23) Environment saving club
8) Photography society	24) Career club
9) Agro-rovers	25) Winter cloth/Food distribution to the poor
10) Model United Nations Associations	
11) Bondhu Sobha	26) ICT club
12) Surhid	27) Different voluntary student clubs for achieving GA
13) Shuvo Shongho	
14) Football Club	28) Different Socio-cultural and voluntary organizations
15) Cricket Club	

Standard 7: Faculty and Professional Staff

Criterion 7-8: The POE maintains ideal combination of faculty with 10% Professor, 20% Associate Professor, 40% Assistant Professor and 30% Lecturer with reasonable teacher student's ratio, depending on the nature of discipline, as necessary for effective teaching learning in the academic program/discipline.

Teacher-Student Ration (Maximum) 1:12

Standard 8: Facilities and Resources

Criterion 8-4: Laboratory facilities, instructional technology & software, IT learning facilities that are identified through curriculum mapping as necessary to attain the defined learning outcomes of program and course(s) and to conduct research are in good condition with appropriate safety measures, appropriate, adequate and accessible when

needed by the students and faculty members under a policy that ensures timely repair/replacement, supply and continuous improvement.

List of Essential Laboratories

1) Agriculture Extension Lab	10) Farm Mechanics Lab
2) Agroforestry Field /Lab	11) Genetics and Plant breeding
3) Agronomy Field	12) Horticulture Lab
4) Agronomy Lab	13) ICT Lab
5) Animal Husbandry Lab	14) Plant Pathology Lab
6) Biochemistry and Molecular Biology Lab	15) Plant Physiology & Ecology Lab
	16) Soil Science Lab
7) Biotechnology Lab	17) Statistics Lab
8) Chemistry Lab	18) Tissue Culture & Plant Anatomy Lab
9) Entomology Lab	

Approved

Discipline Specific Requirements for ICT, Computer Science & Engineering

Standard 1: Governance

Criterion 1-5: The HEI/POE has a documented class size policy and maintains class size that is appropriate for effective management of the teaching-learning-assessment to ensure better attainment of learning outcomes.

Class size (number of students in a class) for theoretical class is maximum 40

Class size (number of students in a class) for practical class is maximum 20

Standard 4: Curriculum

Criterion 4-7: In case of Bachelor degree program curriculum includes minimum 25% of total credits for general education courses with clearly defined course learning outcomes and mapped with PLOs and learning outcome domains of BNQF. In case of Master's degree program curriculum includes minimum 10% of total credits for general education courses with clearly defined course learning outcomes and mapped with PLOs and learning outcome domains of BNQF.

List of general education courses to adapt considering PLO and GA in the curricula:

1) Accounting & Information System (AIS)	15) History of Emergence of Bangladesh
2) Business and Technology Management (BTM)	16) Philosophy
	17) Public Administration
3) Digital Business Transformation (DBT)	18) Sustainable Development in Bangladesh
4) Economics	19) Constitution and Human Rights
5) Business Communication	20) Environment & Disaster Management
6) Marketing	21) Leadership Development
7) Organization Behavior	22) Human Resource Development
8) Industrial Psychology	23) Career Planning & Development
9) Industrial Management	24) Digital Marketing

1

10) Communicative English 11) Bangladesh Studies 12) Bangla Literature & Culture 13) Sociology 14) Political Science	Masters level, proposed GED courses are: 1) Research Methodology 2) Total Quality Management (TQM) 3) Professional Project Management (PPM)

Criterion 4-9: Provisions of internship/project/dissertation/field work/work integrated learning opportunities are included in the curriculum.

Internship/project/dissertation/field work:

a. Internship: Six months

b. Project/Dissertation: Topics based on recent trends of research and development; at least 1 year or two semesters.

Standard 6: Student Admission & Support Services

Criterion 6-1: The HEI/POE maintains a clearly defined and well-communicated admission policy with transfer and withdrawal provisions, entry requirements that reflect the level of qualifications required to match with the nature of the discipline and mission of the POE. Admission policy is effective to select students who have potentials and are able to afford the academic load to complete the program successfully.

Requisite qualifications for admission in the Bachelor Degree (Undergraduate) program:

HSC or equivalent with Mathematics and Physics

The aptitude test to be conducted for the admission seekers based on the following Learning Outcome (LO):

LO1	Ability to solve differential equations
LO2	Ability to solve integral and differential calculus problems
LO3	Ability to solve basic statistical problems
LO4	Ability to solve simple linear equations
LO5	Ability to solve basic physics problems

Requisite qualifications for admission in the Master Degree (Graduate) program:

i) Undergrad degree in CSE/CS/ICT/IT

ii) Undergrad in any other discipline but additional courses of BSc level in Programming Language, Algorithm, Data Structure, Database, Operating System, Computer Networks, Artificial Intelligence, Software Engineering and any other courses the Post Graduate committee of the related department thinks necessary.

The aptitude test to be conducted for the admission seekers at Masters level based on the following Learning Outcome (LO):

LO1	Ability to solve basic data structure related problems
LO2	Ability to solve basic algorithmic problems
LO3	Ability to solve discrete math problems
LO4	Ability to design solution based on digital logic
LO5	Ability to write program to solve a problem

Criterion 6-7: POE ensures and facilitates the participation of students in co-curricular activities and community services under the management of the HEI on a regular basis to promote creativity, social responsiveness, leadership qualities, values, molding personality towards holistic development.

List of co-curricular activities to support the defined GA:

1. Contest includes Programming, Idea Innovation, Hack-a-Thon, Apps development and related on regular interval
2. Workshops and seminars connecting Industry on recent market demand area and skills building on regular interval
3. Discussion round table engaging industry leaders on regular interval
4. Job fair and career counseling workshops on regular interval
5. Festival related to technology and innovation on annual basis
6. Outreach activities by students to support societal needs for knowledge sharing on regular interval
7. Debating activities based on trends of the time
8. Societal activities engaging sustainable development goals (SDG)
9. Industry Visit

Standard 7: Faculty and Professional Staff

Criterion 7-8: The POE maintains ideal combination of faculty with 10% Professor, 20% Associate Professor, 40% Assistant Professor and 30% Lecturer with reasonable teacher student's ratio, depending on the nature of discipline, as necessary for effective teaching learning in the academic program/discipline.

Teacher-Student ratio: **1:12**

[For practical class teacher student ratio maximum 1:10].

Standard 8: Facilities & Resources

Criterion 8-4: Laboratory facilities, instructional technology & software, IT learning facilities that are identified through curriculum mapping as necessary to attain the defined learning outcomes of program and course(s) and to conduct research are in good condition with appropriate safety measures, appropriate, adequate and accessible when needed by the students and faculty members under a policy that ensures timely repair/replacement, supply and continuous improvement.

List of Essential Laboratories:

1. Software Engineering Lab	5. Embedded Systems and IoT Lab
2. Competitive Programming Practice Lab	6. Digital Logic Design Lab
	7. Digital and Analog Electronics Lab
3. General Purpose Programming Lab	8. Electrical Circuit Lab
4. High-Performance Computing Lab with GPU	9. Networking Lab

List of Supporting Labs for Research and Development (optional):

1. Computer Interfacing Lab	5. VLSI lab
2. Cyber Security and Resilience Lab	6. Cloud Computing lab
3. Machine Learning Lab	7. Big Data Analytics Lab
4. Data Science Lab	

List of optional instructional technology and software (IT facilities):

1. Matlab and Simulink
2. Open Source Engineering Tool

Approved
Discipline Specific Requirements for Fisheries

Standard 1: Governance

Criterion 1-5: The HEI/POE has a documented class size policy and maintains class size that is appropriate for effective management of the teaching-learning-assessment to ensure better attainment of learning outcomes.

Class size (number of students in a class) for theoretical class is maximum is 40

Class size (number of students in a class) for practical/Lab class is maximum is 20

Standard 4: Curriculum

Criterion 4-7: In case of Bachelor degree program curriculum includes minimum 25% of total credits for general education courses with clearly defined course learning outcomes and mapped with PLOs and learning outcome domains of BNQF. In case of Master's degree program curriculum includes minimum 10% of total credits for general education courses with clearly defined course learning outcomes and mapped with PLOs and learning outcome domains of BNQF.

List of general education courses:

(PoE will select appropriate courses considering the PLOs and Graduate attributes.)

1) Bangla - language and culture,	9) Public Administration,
2) Communicative English,	10) Human Behavior,
3) ICT,	11) Ethics,
4) Sociology,	12) Climate Change Science,
5) Economics,	13) Disaster Management, etc.
6) Food Safety,	14) History of Emergence of Bangladesh
7) Leadership,	15) Bangladesh Studies
8) Entrepreneurship Development,	

Criterion 4-9: Provisions of internship/project/dissertation/field work/work integrated learning opportunities are included in the curriculum.

Undergraduate capstone experience:

1) Internship for minimum 3 months; or

2) Research project (that includes dissertation) for minimum 3 months; or

3) Extensive field work for minimum 3 months.

Standard 6: Student Admission & Support Services

Criterion 6-1: The HEI/POE maintains a clearly defined and well-communicated admission policy with transfer and withdrawal provisions, entry requirements that reflect the level of qualifications required to match with the nature of the discipline and mission of the POE. Admission policy is effective to select students who have potentials and are able to afford the academic load to complete the program successfully.

Requisite qualifications for admission into the BSc Fisheries (Hons.) degree program:

- HSC or equivalent (12-years of schooling) with biology, physics, chemistry, math.

- In addition, students will be required to learn swimming within 6 months of admission into BSc Fisheries degree program.

Requisite qualifications for admission into the Master Degree Programs in Fisheries Sciences:

Academic background	1) BSc in Fisheries; or 2) BSc in Marine Biology/Fisheries/Science; or 3) BSc in Oceanography
CGPA requirement (scale 4.0)	Minimum 3.0

Criterion 6-7: POE ensures and facilitates the participation of students in co-curricular activities and community services under the management of the HEI on a regular basis to promote creativity, social responsiveness, leadership qualities, values, molding personality towards holistic development.

List of co-curricular activities and community services:

Students enrolling to BSc fisheries degree program will be required to get actively involved in some of the co-curricular activities from the followings or as guided by the PoE.

1) Fisheries discipline-specific club/society
2) Debating club
3) Sports (swimming, scuba diving, etc.) club
4) Cultural activities
5) Blood donation club
6) English language club
7) Rover scouting
8) Community services, BNCC, environment/climate club, career club, science club, social works, etc.

Standard 7: Faculty and Professional Staff

Criterion 7-8: The POE maintains ideal combination of faculty with 10% Professor, 20% Associate Professor, 40% Assistant Professor and 30% Lecturer with reasonable teacher student's ratio, depending on the nature of discipline, as necessary for effective teaching learning in the academic program/discipline.

Teacher-student ratio: up to Maximum **1:12**

Standard 8: Facilities & Resources

Criterion 8-4: Laboratory facilities, instructional technology & software, IT learning facilities that are identified through curriculum mapping as necessary to attain the defined learning outcomes of program and course(s) and to conduct research are in good condition with appropriate safety measures, appropriate, adequate and accessible when needed by the students and faculty members under a policy that ensures timely repair/replacement, supply and continuous improvement.

List of Essential Laboratory Facilities:

1) Fish biology, taxonomy & ichthyology
2) Fish genetics, biotechnology, breeding
3) Fish nutrition

4) Fish disease and health management

5) Water quality management

6) Fisheries resources management

7) Fish microbiology

8) Fish post-harvest, processing, QC

9) Wet lab

10) Field lab (equipped with hatchery and pond facilities)

11) ICT lab

List of recommended software:

SPSS, MATLAB, R, GIS & RS, NVivo, etc.

List of other facilities recommended for the discipline:

- Fish clinic
- Functional collaborative programs between faculty/department and the field
- Infrastructures to support extensive field works and practical works with field demonstrations

Approved

Discipline Specific Requirements for the Bachelor of Science in Agricultural Economics (Hons.) [B.Sc. Ag. Econ. (Hons.)]

Standard 1: Governance

Criterion 1-5: The HEI/POE has a documented class size policy and maintains class size that is appropriate for effective management of the teaching-learning-assessment to ensure better attainment of learning outcomes.

Class size (number of students in a class) for theory class is maximum 40

Class size (number of students in a class) for practical/Lab class is maximum 20

Standard 4: Curriculum

Criterion 4-7: In case of Bachelor degree program curriculum includes minimum 25% of total credits for general education courses with clearly defined course learning outcomes and mapped with PLOs and learning outcome domains of BNQF. In case of Master's degree program curriculum includes minimum 10% of total credits for general education courses with clearly defined course learning outcomes and mapped with PLOs and learning outcome domains of BNQF.

List of general education courses (Program Offering Entity (PoE) will select appropriate GED courses considering PLO):

1. State and Government	11. Language and Culture
2. Agricultural Journalism	12. Philosophy
3. Communicative English	13. Information and Communication Technology
4. Gender Study	
5. Organizational Behavior	14. Data Science
6. Entrepreneurship Development	15. Psychology
7. Human Resources Management	16. Smart Agriculture
8. Disaster Management	17. Logic
9. Nutrition and Food Processing	18. Agricultural Laws
10. Emergence of History of Bangladesh	19. Disaster Management

Criterion 4-9: Provisions of internship/project/dissertation/field work/work integrated learning opportunities are included in the curriculum.

Internship/ Project work/ Term paper/ Field work for minimum 3 months

Standard 6: Student Admission & Support Services

Criterion 6-1: The HEI/POE maintains a clearly defined and well-communicated admission policy with transfer and withdrawal provisions, entry requirements that reflect the level of qualifications required to match with the nature of the discipline and mission of the POE. Admission policy is effective to select students who have potentials and are able to afford the academic load to complete the program successfully.

Requisite qualifications for admission in the bachelor's degree (Undergraduate) program:

- Candidates applying for B.Sc. in Agricultural Economics must have Physics, Chemistry, Mathematics and Biology in HSC/Equivalent.

Criterion 6-7: POE ensures and facilitates the participation of students in co-curricular activities and community services under the management of the HEI on a regular basis to promote creativity, social responsiveness, leadership qualities, values, molding personality towards holistic development.

List of co-curricular activities to support the defined GA (PoE will select the appropriate co-curricular activities according to PLO):

1. Debating Club	9. BNCC
2. Career Club	10. Rover Scout
3. Language Club	11. Journalist Club
4. Cultural Club	12. Tourism Club
5. Social Awareness Club	13. Farmers- Student Nexus/ attachment
6. Environmental Awareness Club	14. Business Incubation Club
7. Sports Club	15. Business Startup Club
8. Economics Club	16. Idea Harvest Club

Criterion 4-9: Provisions of internship/project/dissertation/field work/work integrated learning opportunities are included in the curriculum.

Internship/ Project work/ Term paper/ Field work for minimum 3 months

Standard 6: Student Admission & Support Services

Criterion 6-1: The HEI/POE maintains a clearly defined and well-communicated admission policy with transfer and withdrawal provisions, entry requirements that reflect the level of qualifications required to match with the nature of the discipline and mission of the POE. Admission policy is effective to select students who have potentials and are able to afford the academic load to complete the program successfully.

Requisite qualifications for admission in the bachelor's degree (Undergraduate) program:

- Candidates applying for B.Sc. in Agricultural Economics must have Physics, Chemistry, Mathematics and Biology in HSC/Equivalent.

Criterion 6-7: POE ensures and facilitates the participation of students in co-curricular activities and community services under the management of the HEI on a regular basis to promote creativity, social responsiveness, leadership qualities, values, molding personality towards holistic development.

List of co-curricular activities to support the defined GA (PoE will select the appropriate co-curricular activities according to PLO):

1. Debating Club	9. BNCC
2. Career Club	10. Rover Scout
3. Language Club	11. Journalist Club
4. Cultural Club	12. Tourism Club
5. Social Awareness Club	13. Farmers- Student Nexus/ attachment
6. Environmental Awareness Club	14. Business Incubation Club
7. Sports Club	15. Business Startup Club
8. Economics Club	16. Idea Harvest Club

Standard 7: Faculty and Professional Staff

Criterion 7-8: The POE maintains ideal combination of faculty with 10% Professor, 20% Associate Professor, 40% Assistant Professor and 30% Lecturer with reasonable teacher student's ratio, depending on the nature of discipline, as necessary for effective teaching learning in the academic program/discipline.

Teacher-Student ration maximum: 1:15

Standard 8: Facilities & Resources

Criterion 8-4: Laboratory facilities, instructional technology & software, IT learning facilities that are identified through curriculum mapping as necessary to attain the defined learning outcomes of program and course(s) and to conduct research are in good condition with appropriate safety measures, appropriate, adequate and accessible when needed by the students and faculty members under a policy that ensures timely repair/replacement, supply and continuous improvement.

List of Laboratories (Mandatory):	List of Laboratories (Optional):
- Agricultural Price Lab - Farm Management Lab - Agricultural Statistics Lab - Computer Lab	- Environmental and Risk Analysis Lab - Agribusiness Innovation Lab - Research Methodology Lab - Rural Development Lab - Disaster Management Lab - Data Science Lab