



ARSII UNIVERSITY
COLLEGE OF AGRICULTURE & ENVIRONMENTAL SCIENCE
DEPARTMENT OF SOIL RESOURCES & WATERSHED
MANAGEMENT

NAME OF THE DEGREE TO BE AWARDED
"BACHELOR OF SCIENCE IN SOIL RESOURCES &
WATERSHED MANAGEMENT"

BACKGROUND AND JUSTIFICATION

Ethiopia has one of the richest water resource potentials in the world. Its water resources could be sufficient for domestic water supply, irrigation, and hydro-power generation. Despite this fact, however, the contribution of irrigation for the development of agricultural practices is inadequate. Due to the fact that, the availability of fresh water is varies in time and space; there is the most limiting factor for agricultural development in developing countries of the world today. The second most limiting factors to agricultural productivity in the country are soil fertility and moisture. Currently moisture conservation (water harvesting) is one of the main strategies of the government for the alleviation of poverty and food insecurity. To meet this demand, there is a high need for quality professionals in the field of soil resources and watershed management who can design and plan strategies for the sustainable utilization and management of these resources. To combat soil and water degradation through proper use and conservation of natural resources, to promote a sound management of soil and water resources, and to coordinate efforts with the "agricultural development-led industrialization" strategy for the country, it is crucial to produce competent professionals in soil resources and watershed management. This program will make a significant contribution toward the alleviation of

poverty and the improved livelihood of rural peoples by integrating human needs into project planning and development through its multidisciplinary educational approach.

OBJECTIVE OF THE DEPARTMENT

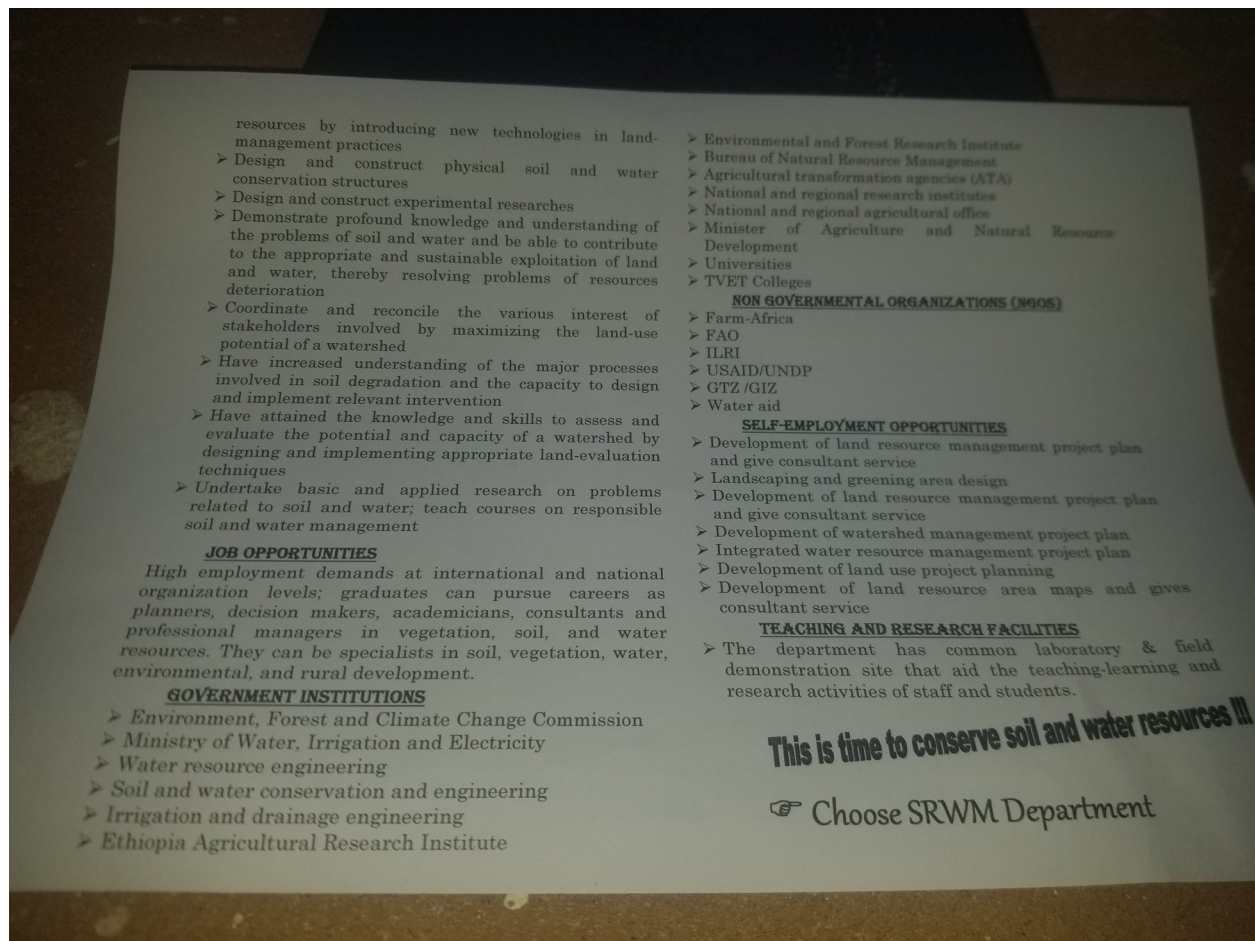
- Offer training to provide students with basic and applied knowledge in planning, designing, and implementing sustainable soil and water conservation, water harvesting and soil fertility management, environmental management, and rural water supply
- Apply the acquired skill and knowledge in identifying various problems related to population, environment, soil, and water in various watershed areas
- Initiate and actively participate in multidisciplinary research activities by creating an environment conducive to the participation of concerned stakeholders in the sustainable development of a defined watershed, and the alleviation of poverty and improved livelihood of communities

GRADUATE PROFILE

Up on the successful completion, the graduate should be able to:

- Plan and design water-harvesting (moisture conservation) techniques that could be fundamentally important in supplementing drought-affected areas.
- Plan and designing integrated soil and water management projects/programs, and develop a sustainable and wise use of scarce water and soil resources to improve the livelihood of the population at large.
- Plan, design, and implement irrigation, drainage, rural water supply, and sanitation schemes, together with operation and maintenance
- Contribute to development activities to combat soil degradation and better manage the soil and water

Soil Resource and watershed management



Soil Resource and watershed management



ARSI UNIVERSITY
COLLEGE OF AGRICULTURE & ENVIRONMENTAL SCIENCE

DEPARTMENT OF NATURAL RESOURCE MANAGEMENT

NAME OF THE DEGREE TO BE AWARDED
**"BACHELOR OF SCIENCE IN NATURAL RESOURCES
MANAGEMENT"**

BACKGROUND AND JUSTIFICATION

Natural Resources are the air we breathe, the soil we walk on, the water we drink, the plants we enjoy, the wind that blows, the animal life surrounding us and the sun that warms our world. Unwise utilization of these resources brought the challenge that people are facing today. Currently, there is a widespread problem of soil erosion and soil fertility decline, fuel wood crisis and water scarcity resulting in poverty and food insecurity. More than half of the population is assumed to be below absolute poverty.

New insights have emerged, which includes a more integrated picture of rural livelihoods and the factors that they depend to a significant extent on it. Many development concepts and scientific research outputs, currently, show that there is a need to focus on Natural Resource Management issues to mitigate these intricate problems. Thus, Natural Resource Management had taken its place alongside agriculture as a major concern in addressing the question of food security.

OBJECTIVE OF THE DEPARTMENT

- To produce qualified professionals in the area of NRM (education)

- Understanding and comprehending problems in NRM, and seeking solutions through research.
- Provide technical advices, consultancy services and tailored short term training to development agents and other stakeholders working in NR and environmental areas,
- Integrate teaching "research with extension activities so as to extend appropriate technologies and techniques generated through research.
- Establish partnership with related development partners to promote sustainable NRM to contribute towards improved livelihoods,
- Advice and/or involve in national/regional/international NR development and management policies.

GRADUATE PROFILE

Up on the successful completion, the graduate should be able to:

- Analyze environments and plan integrated interventions for optimal resource use and hence for economic development
- Provide information on social, economic, and environmental impacts of alternative natural resource management policies and programs
- Apply the basic policy and legal instruments required for natural resource conservation and development; recognize the role of institutions in natural resource management
- Systematically assess and evaluate the resource base for its sustainability under a given ecological and socioeconomic conditions.
- Investigate the rural and social structures and their influence on sustainable rural development
- Quantify the benefits and costs of various elements of natural resource base and make recommendations for optimal use for increased production.

JOB OPPORTUNITIES

Natural Resources management

Graduates are prepared to work in different Government, Non-government organizations and Self-employment opportunities. Below are examples of expert positions with potential activities and responsibilities.

GOVERNMENT INSTITUTIONS

- Environment, Forest and Climate Change Commission
- Ministry of Agriculture and Natural Resource
- Institute of disaster privation and preparation
- Institute of land administration
- National and regional disaster privation and preparation office
- National and regional land administration office
- Agricultural Safety Net Program at d/t level
- Agricultural Growth program (AGP) at d/t level
- Awash river basin Authority
- Rift Valley River Basin Authority
- National and regional research institutes
- National and regional agricultural office
- Agricultural transformation agencies (ATA)
- Ethiopian Forest and Environmental Research Institute
- Federal & Regional Forest Enterprises
- Bureau of Natural Resource Management
- Universities
- TVET Colleges

NON-GOVERNMENTAL ORGANIZATIONS (NGOS)

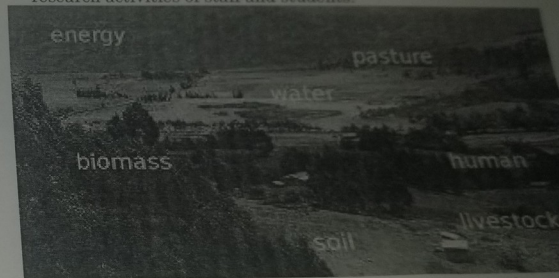
- Farm-Africa
- FAO
- ILRI
- USAID/UNDP
- GTZ /GIZ
- SAVE the children
- Horn of Africa
- World Vision
- Christian Horizon
- Catholic
- Good Neighbor
- ASDA

SELF-EMPLOYMENT OPPORTUNITIES

- Development of land resource management project plan and give consultant service
- Carbon trading as a consultant
- Landscaping and greening area design
- Development of land resource management project plan and give consultant service
- Integrated water resource management project plan
- Development of land use project planning

TEACHING AND RESEARCH FACILITIES

- The department has common laboratory & field demonstration site that aid the teaching-learning and research activities of staff and students.



To ensure that future generations can enjoy the benefit of the earth's natural resources, a better and more careful management of these resources is needed. There is a great need for natural resource management professionals to train today's farmers and manage to educate the next generation.

☞ Choose NRM Department

Natural Resources management

FOOD SCIENCE AND POSTHARVEST TECHNOLOGY DEPARTMENT

**FOOD SCIENCE AND
POSTHARVEST TECHNOLOGY
DEPARTMENT**

In Ethiopia various agricultural products (plant & animal products) makes up the backbone of the economy. About 85 % of this produce is from subsistence type farms and 15 % are from modern commercial farms. The large shares in export commodities also emerge from this agricultural produce. In many parts of Ethiopia, there is a potential for excess production (grains, fruit and vegetables, meat and dairy products, coffee, tea, spices, etc.). However, quantity and quality of agricultural foods produced loss due to subsistence farms are estimated one of the largest in the world. This is particularly large at times of excess production.

Some of the basic reasons are:

- ✦ Poor knowledge on the overall postharvest facilities on the handling, conversion agricultural product handling, conservation and storage of food products and quality into shelf stable products and quality management systems.
- ✦ Limited scope of utilization on forest & other less known food sources from our indigenous sources to support food security.
- ✦ Poor advance on food technology.
- ✦ Limited diversification of value added processed foods and by-products utilizations.
- ✦ Limitation of qualified professionals in the sector, poor knowledge of the producers & the community on the overall quality handling and management of the food products.
- ✦ Lack of technology generation on food products development.
- ✦ To appear competitive and successful on food products in the local markets for food security, there is urgent quality considerations set by the regulatory agencies (ISO, FDA, Codex Alimentarius Commission or the FAO/WHO) that any food processors are required to meet.

Raw and processed foods

Hunger and poverty reduction, better nutrition for health sustainable energy requirements are one of the millennium demands that cover to a country like Ethiopia are bound to perform and the development of the food processing sector has a grand role, which Ethiopia is limited in some to many aspects. Food science and technology intervention for better nutrition for undernourished individuals community in many areas are on mission.

In order to enhance this process, a study program was developed in Food Science & Postharvest Technology Department is demanded that covers to the prevention of post harvest losses (plant based foods) and undesirable changes (animal tissues). Regardless of the opportunities provided by the government, losses during post harvest operations due to improper storage and handling in the country are enormous.

Postharvest losses can occur in the field, in packaging areas, in storage, in processing, during transportation and in the wholesale and retail market.

Severely low level because of poor facilities, lack of awareness of producers. Knowledge or proper storage conditions are needed to lighten the weight of optimum shelf life after harvest. Appropriate processing techniques are necessary for prevention and value addition in general.

The objectives and demand of FSPT

The prospective students shall be enabled to develop skills, academic values and professional oriented towards solving problems of food and postharvest losses. The students shall be trained to develop soft skills such as entrepreneurship skills effective communication skills, team work, and management skills in addition to abilities in various areas of food science and postharvest technology.

Some of FSPT Students in food industry during visiting

Duration of the study in BSc Program

The total duration of the program is four years. Students who successfully pass the first year examination, at the end of 3rd year, will be assigned for two months (July to September) in the following fields:

- ✓ Food and refrigeration
- ✓ Food and packaging
- ✓ Food quality & safety
- ✓ Food control/managing institutes

Structure of the Program of BSc

The curriculum is structured in modular form. The program is composed of 20 modules and courses. The courses make up a total of ECTS148C.Hrs.

Unit Operation in Food Processing

Cooking oil solvent extraction plant

Food Science and Postharvest Technology Department

Some of the courses are:

- Food Microbiology
- Principles of Food Processing & Preservation
- Food Packaging & Technology
- Food Chemistry & Biochemistry
- Sugar, Honey & Confectionery T.
- Fruits & Vegetables Processing T.
- Food Quality Control & Standard
- Food Analysis
- Human Nutrition
- Beverage Technology
- Grain Processing Technology
- Postharvest Handling of Crops
- Food Product Development & Sensory Eval.
- Food Fermentation and Biotech.
- Food and Oils Processing Tech.
- Food Fermentation and Biotech.
- Meat, Poultry & Fish Processing Tec.
- Food Waste Management & Environmental Protection
- Heat and mass Transfer
- Engineering Properties of Foods

Photos from best student award

Graduation requirements

A student registered to the program of FSPM is required to fulfill the following conditions in order to be awarded the Bachelor of Science Degree:

- A minimum of 240 ECTS/1440 hrs and a maximum of 240 ECTS/1440 hrs
- Students will be evaluated for each course according to the following criteria:
- Successful completion of all the 20 modules and courses (including the freshman courses) with a minimum of satisfactory grade (number grade of 2.0 and/or letter grade of C or above) 2.00 or more CGPA.
- No "F" grade in any course

Postgraduate program in "Food Science and Technology"

Duration of the study in MSc Program: Two years for regular and 3 years for Extension Program (if needed)

Some of the courses are:

- Advanced Food Chemistry and Analysis
- Advanced Food and Industrial Microbiology
- Advanced Food Processing and Preservation
- Engineering Food Properties and Unit Operations
- Applied Human Nutrition
- Experimental Design in FST and Research
- Food Packaging Technology
- Food Quality and Safety Management
- Food Product Development and Sensory Evaluation
- Fruits and Vegetables Processing Technology (E)
- Meat, Poultry and Aquaculture Processing Technology (E)
- Dairy Products Processing Technology (E)
- Food Quality and Safety Management Technology (E)

Admission Requirements for MSc

Applicants for admission to the MSc program should have at least a bachelor's degree or its equivalent in food science, food science and postharvest technology, food engineering, human nutrition, postharvest management, postharvest technology, recognized higher learning institutions.

Students from, horticulture, plant science, animal science and other agricultural fields, biology, chemistry shall take bridge courses from undergraduate program as per the recommendation of the department academic council.

Applicants must pass written entrance exams and fully satisfy the academic rules and regulation of the University.

Graduation Requirements

A minimum of 39 credit hours including thesis. Cumulative Grade Point Average 3.00 and Thesis status Pass

Profile of graduates and employment opportunity:

Graduates of this program will be equipped with theoretical knowledge and practical skills in food processing and preservation, food safety, quality control & analysis and postharvest handling, various agricultural products.

Therefore, the graduates can employ themselves with:

1. Various agro-food processing (food in various forms)
2. Cottage food processing industry
3. NGO's working in nutrition, food security, other food related sections.
4. Universities and colleges
5. Ministry of agriculture-post harvest section
6. Ministry of industry and trade
7. Ministry of health-food & nutrition
8. Regional and international organizations
9. Ethiopian commodities exchange
10. Ethiopian standardization/ conformity authorities
11. Municipalities, retail markets organization and food quality handling and improvement
12. Consultants & as entrepreneurs

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Food Science and Postharvest Technology Department (FSPT)

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Agricultural
Economics is the
Science of Choice!

Department of
Agricultural Economics

Background and Justification

Due to globalization, individuals in the world now are opting for food and fiber from countries having comparative advantage of production. To make use of this opportunity the country has to be competent in the global market by producing competent human resource in the areas of optimizing scarce resource use, planning profitable projects which accelerate the pace of economic growth. Hence, producing capable, competent graduates in the field of Agricultural Economics is instrumental.

In reply to this demand, the universities developed a curriculum to contribute its share to the socio-economic development of the country. In response to this, and to fulfil the manpower gap in the sector; in the academic year 2016/2017 Arsi University opened the department of Agricultural Economics.



Target



The department of agricultural has the following target:

- ♦ Carry out socio-economic researches.
- ♦ Improve the general living conditions of rural and urban producers by increasing production and income and to contribute to the formation of agricultural policies.
- ♦ Prepare and carry out project, for agricultural economics, environmental economics, agricultural marketing, agricultural business, agricultural extension, organization, agricultural policies, rural sociology, and similar topics for regional, national and international level.
- ♦ Conduct research in order to increase the contribution of the agricultural sector in the economy, investment, production, rural development, control the effectiveness of support policies.

Agiroeconomics

Objective of the Program

The overall goal of the B.Sc. degree program is to produce competent, skilled and committed agricultural economics professionals capable of bringing change in the agricultural economy.

The specific objectives of the program are:

- Produce knowledgeable graduates in the field of Agricultural Economics who can assist efficient and sustainable use of the societies' scarce resources;
- Produce committed, motivated, socially accountable and qualified Agricultural Economists who undertake problem-solving socioeconomic researches in the field;
- Engage in community services, and Provide consultancy and advisory services governmental and/or non-governmental organizations.

Why Agricultural Economics?

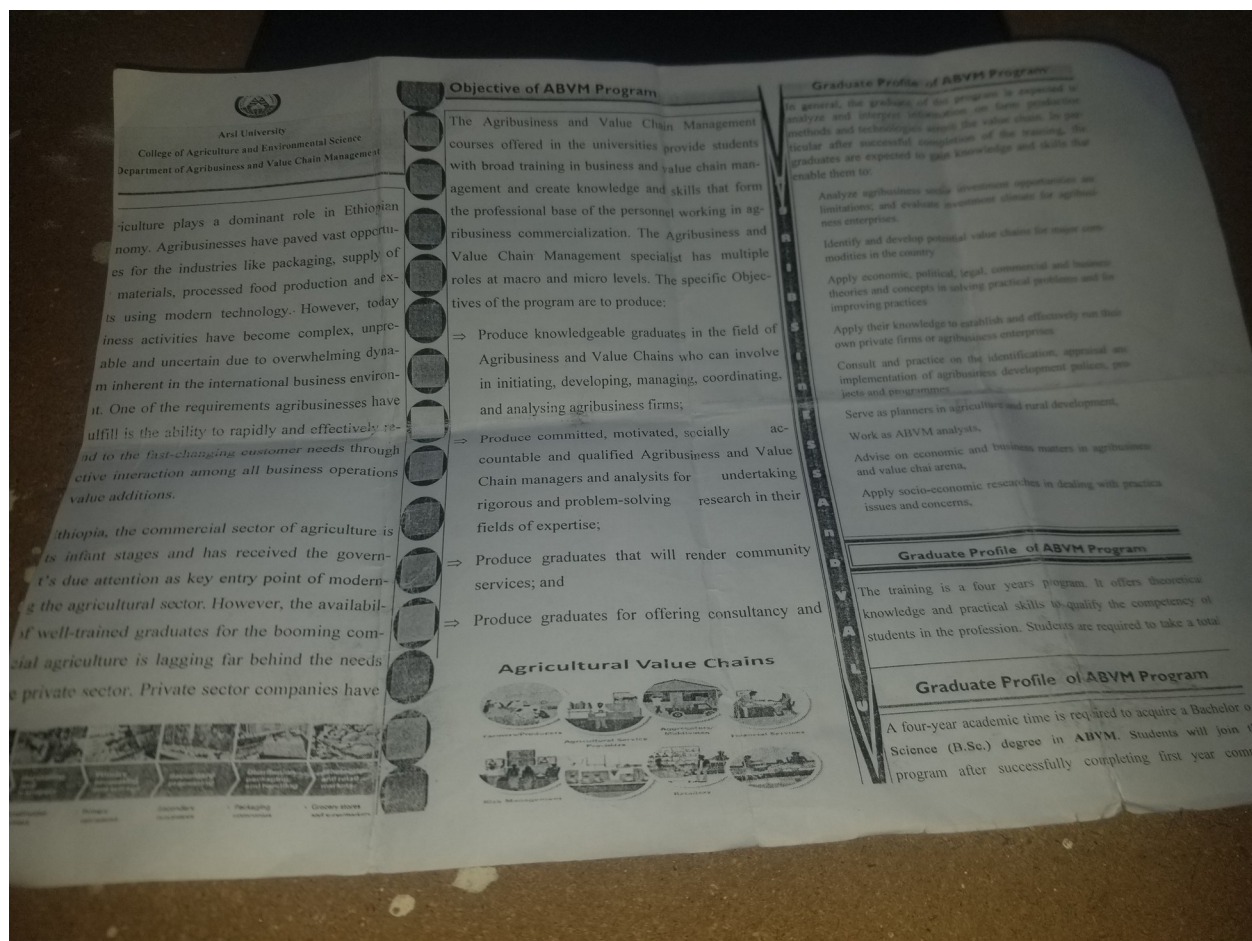
- Our national and international recognized programme prepares students for careers with professional, and competitive salaries.
- Our students are sought-after throughout the world in agricultural and business environments and are a popular choice when it comes to work opportunities.
- International Master in Agricultural Management (IMA) exchange programmes present exciting opportunities for MSc students to study at University of Applied Sciences Weihenstephan-Triesdorf (HSWT) at Southern Bavarian, Germany.
- We have a rich tradition built on excellence, and established values.
- We are accessible and centrally located in Arsi Highland of Ethiopia that reflects one of the potential wheat & barley belt of sub-Saharan Africa.
- A pulsating student life and popular residences enable students to participate in sport, culture, and religious activities, students fun, and training-oriented excursions of Arsi, oromia Region, Ethiopia.

Major Course of Agricultural Economics

- Microeconomics, Macroeconomics, and Development Economics.
- Operations Research in Agricultural Economics, and Farm Management
- Mathematics for Economics.
- Introduction to Statistics & Econometrics.
- Value Chain Analysis and Development, International Trade, and Agricultural Marketing.
- Introduction to Natural Resource Mgt. and Natural Resource and Environmental Economics.
- Seminar in Agricultural Economics, Senior Research project, and Research methods for Agricultural Economics.
- Agricultural Project Planning and Analysis.



Agroeconomics



Agribusiness and value chain management

Graduation Requirements		Major Course of the Department			Supportive Courses		
Students who are directly admitted from secondary school are expected to take a total of 153 credit hours (57 courses). At the end of the program, the student is required to have a Cumulative Grade Point Average (CGPA) of 2.00		S	Course Name	Course code	Cr. Hr	No	Course Name
		1	Value Chain Analysis and Development	ABVM222	3	1	Computer Application in Agribusiness
		2	Agricultural Marketing	ABVM311	3	2	Introduction to Agribusiness Management
		3	Operation Research in Agribusiness	ABVM112	3	3	Gender and Youth in Value Chain
		4	Crop Value Chain Management	ABVM313	3	4	Business Mathematics and Application
		5	Livestock Value Chain Management	ABVM321	3	5	Senior Research Proposal
		6	Farm Management	ABVM322	3	6	Practical Attachment
		7	Logistics in Value Chain	ABVM324	3	7	Organizational Behavior in Agribusiness
		8	Agribusiness Policy and Strategy	ABVM411	3	8	Senior Research
		9	Risk Management in Agribusiness	ABVM412	3	9	Principles of Accounting
		10	Climate Change in Agribusiness	ABVM421	3	10	Animal production and Management
		11	Nutrition Sensitive Agriculture	FSPT 412	3	11	Crop production and Management
		12	Microeconomics	AgEc221	3	12	Statistics for Agribusiness
		13	Macroeconomics	AgEc 222	3	13	Business Communication
		14	Financial Management	Mgt351	3	14	Financial Management
		15	International Agricultural Trade	AgEc311	3	15	Cost and management Accounting
		16	Project Planning and Analysis	AgEc412	3		
		17	Operation Management	AgEc 312	2		
		18	Econometrics	AgEc 332	3		
		19	Agricultural Credit and Finance	AgEc341	3		
		20	E-commerce and Trade Intelligence Management	Mgt452	3		
		21	Organizations and Management of Cooperatives	Coop252	3		
		Total			62		

Agribusiness and value chain management

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WELCOME TO ARSI UNIVERSITY

COLLEGE OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

Department of Plant Science, and Horticulture
Academic Year: 2022

1. Introduction

Plant science and Horticulture program is designed to respond to immediate needs of the country so as to increase crop production and productivity, and thereby contribute to improve the livelihood of the people. The program aims at producing competent professionals who are well equipped with both theoretical and practical knowledge and skills in managing all aspects of plant production and management in the Ethiopian context and, thereby to conduct various plant science related research and development activities, which can contribute to the country's development program.

Some of the challenges facing the agricultural sector currently are inappropriate, exploitative and unscientifically planned natural resources' utilization and management; serious environmental degradation on the cultivated and potentially cultivable lands by over-farming, over-grazing and over-deforestation; biotic and abiotic stresses decreasing the productivity of land; and climate change. Thus, there is an increasing demand from the stakeholders and the country at large for trained/highly qualified and skilled professionals to take care of and tackle the multifaceted problems related to agriculture and development of natural resources.

2. Objective of the program

The specific objectives of the program:

- Produce adequate and well trained manpower that will regionally, nationally and internationally contribute to generation, dissemination and adoption of improved plant production and protection technologies;
- Provide students with basic and applied knowledge of natural resources (soils, agricultural waters, and forestry); and field, horticultural and industrial crops production and protection;

- Enable the students understand and comprehend problems in crop production and seek solutions through exposure to research, extension and management;
- Enable the students gain the skill and knowledge of proper management and conservation of natural resources and protecting the environment;
- Provide the students with the knowledge of handling plants and their products;
- Integrate training-research-extension to increase the efficiency of plant technology generation, dissemination and adoption by end-users and, thereby, contribute to the intended regional and national development;
- Enable students to conduct relevant research in plant science in problems that affect the region and the nations; and
- Provide professional services to the community and policy makers at large.

3. Duration of the Study

- 4 years for regular undergraduate program

4. Graduation Requirements

- Total Cr hr. for graduation is a total of 152+2
- 2.0 or higher cumulative grade point average (CGPA) overall courses and No "F" grade in any course (s) taken.

5. Degree Nomenclature

- The under graduate Plant Science major program leads to a certification referred in English Bachelor of Science in Plant Sciences

Plant

Best successful Plant scientists who contributed to the alleviation of hunger (Plant science field)

1. Charles Darwin-Idea of natural selection
2. Mendel-Concept of genetic (Plant character)
3. Proffer Gebisa Ejeta-On area of plant breeding and genetics
4. Many outstanding researchers & staff /professional: in researcher center/higher institution in Ethiopia or outside of Ethiopia

Mendel's studies of peas revealed the laws of inheritance



Mendel's work laid the foundation for the sciences of plant genetics and plant breeding

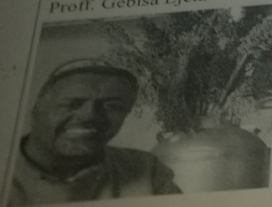


G. Mendel (1822-1884)



Conquered plant breeder
Norman Borlaug
1914-2009,
Nobel Laureate
1970

Proff. Gebisa Ejeta



Proff of Plant Breeding & Genetics

> Founder of sorghum variety- drought tolerance, cold tolerance, resistance to diseases and the parasitic weed, Striga

8. Graduate Profile and Job opportunity

Where you will be going to serve? (Employment/ Job opportunity)

Upon completion and fulfilling of the graduation requirement you become:

- **Researcher**-Carry out scientific research on various aspects of crop production, crop protection, and natural resources
- **Teacher**-
 1. Capable to teach and train in several aspect of horticultural fields & Promote and disseminate agricultural technology through training of farmers
 2. Design and conduct trainings for specialized skill and knowledge in areas of horticulture in agricultural colleges, universities and training centers
- **Consultancy** + **Advisor**-Involve in consultancy and advisory service in the field of plant science
- **Project coordinator**- Design/planning, execute, and monitoring & evaluation of crop projects: crop production, protection and management in NGO
- **Generate self employment**, establish and manage private enterprises related to their profession and related fields
- **Supervisor**: on crop production & productivity (DA)

Concerning job opportunity, as long as students/trainees are well skilled and become competent, they can be hired in the following sectors:

- Government sectors/areas (Universities/Colleges, Research centers, Industries, Different Agriculture sectors, ATVET, etc.)
- Private sector (Industries such as: Coffee and Tea farms enterprise,
- NGOs
- Self Employment opportunity (creating job opportunity by their own)

9. Future further education program

Graduates of Plant science (B.Sc. in Plant science) will have an opportunity to upgrade his/her study in M.Sc., Ph.D. and also in Post Doctoral program, either in the home country or elsewhere abroad (e.g. in different Europe and Australia Universities) mainly through scholarship.

For further information please contact:

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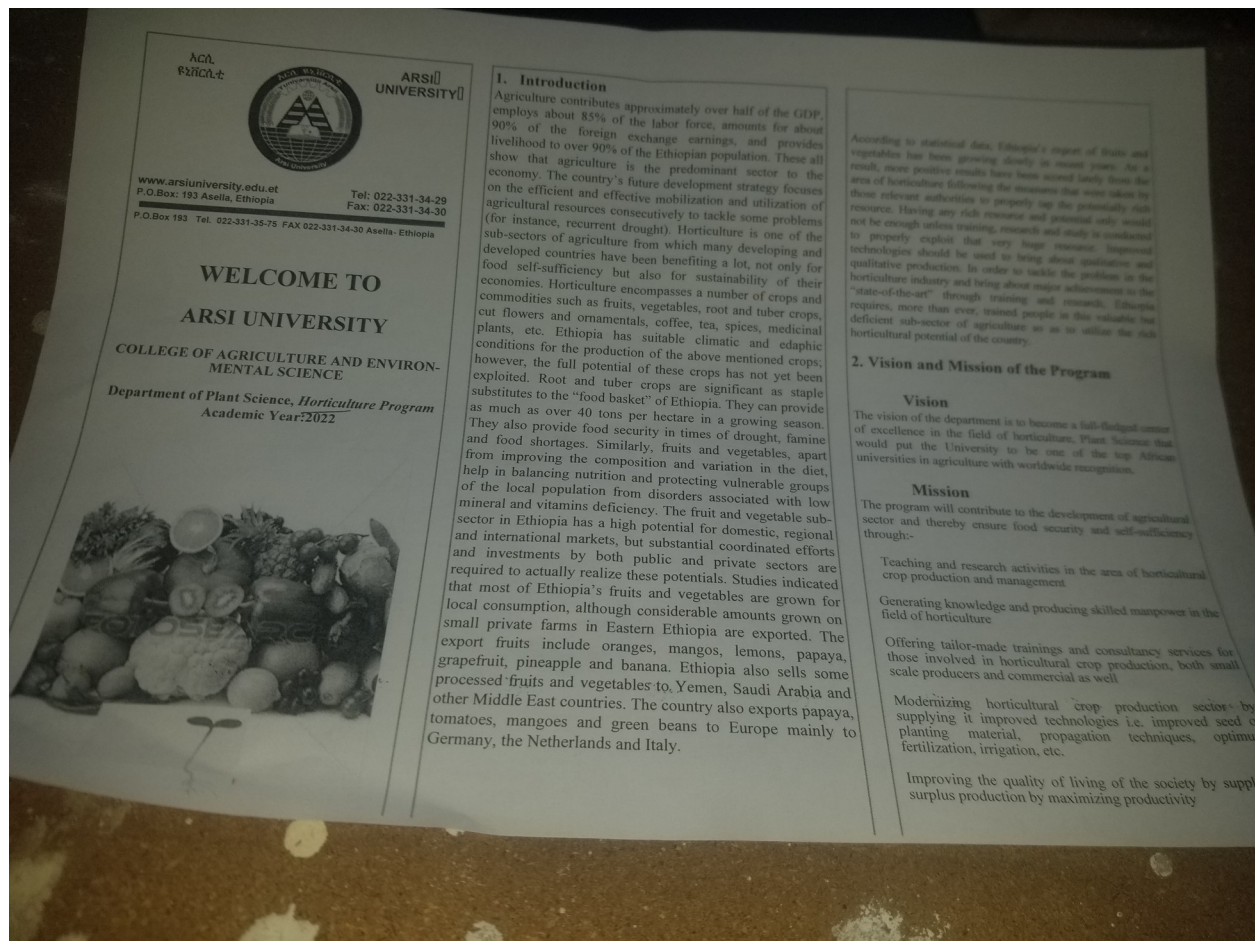
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Department of Plant Science

THANK YOU FOR JOINING

Plant



Horticulture

3. Program Objective

General Objective

Producing high-level manpower equipped with adequate knowledge and skill to design and implement the activities indicated in the perspective graduate profile

Specific Objectives

The program will have the following specific objectives in the undergraduate program of horticulture, Plant Science and Agronomy

- Provide students with basic and applied knowledge and skills of Agricultural crops production & management, breeding, protection and soil fertility management principles & concepts
- Enable the students to understand and realize problems in Agricultural crop production and seek solutions through exposure to research, extension and management
- Handling, processing and marketing of plant products and preventing their pre and postharvest losses.
- Integrate teaching-research with extension activities to extend new improved technologies to the farmers

4. Program Structure

- The training comprises of: Various professional and basic courses, laboratory exercises and field visits to different institutions and industries
- Seminar prepared and presented by each student on specific topic related to agronomy, breeding, protection and soil fertility management under the supervision of instructors in the department
- Senior research project where students work on selected problems on *horticultural*: agronomy, breeding, protection and soil fertility management. The project includes research proposal writing based on problem identification procedures, research execution, data generation, analysis and interpretation followed by a scientific report writing and presentation

6. Degree Nomenclature (Awarded Degree)

- A) MSc in Agronomy
- B) MSc. in Horticulture
- C) BSc. in Horticulture
- D) BSc. in Plant Science

6.1. Duration of the Study

- 4 years for regular undergraduate program
- The MSc in agronomy, and Horticulture program requires 2 years of study for regularly admitted students but 3 years study for extension admitted students.

6.2. Admission Requirements

- A. The minimum qualification for admission to the Master's program in Agronomy is a Bachelor of Science degree in Plant Sciences, Crop Sciences, Horticulture and related fields as well as a cumulative G.P.A. of at least 2.00, fulfillment of qualifying examination, and other admission requirements of the SGS.

- B. Successful candidates as per the rules and regulations of the Ministry of Education and the hosting university can be admitted for BSc

7. Graduate Profile and Job Opportunity

Graduates of the Department of Horticulture, and Plant Science are well equipped with theoretical knowledge, practical skills in various aspects of *agricultural practices* such as agronomy, breeding, protection, soil fertility management, irrigation, greenhouse management, etc. which are needed to:

- Promote and disseminate agricultural technology through training of farmers
- Assist in planning, implementing, monitoring and evaluating programs/projects related to horticulture
- Involve in research activities in the area of his/her professional field of study
- Design and conduct trainings for specialized skill and knowledge in areas of horticulture in agricultural colleges, universities and training centers
- Integrate horticultural crop production and natural resources management issues with other farming enterprises
- Involve in consultancy and advisory service in the field of horticulture
- Generate self employment; establish and manage private enterprises related to their profession and related fields

Therefore, concerning job opportunity, as long as students/trainees are well skilled and income competent, they can be hired in the following sectors:

- Government sector/areas (Universities/Colleges, Research Centers, Industries, Different Agricultural Sectors, ATVET, etc.)

- Private sector (Industries such as: Coffee and Tea Farm Enterprise, Fruit and Vegetable Enterprise, Floriculture, etc.)

- NGOs

- Self Employment Opportunity (creating job opportunity by their own)

8. Future further education program

Graduates of Horticulture (B.Sc. in Horticulture) will have an opportunity to upgrade his/her study in M.Sc., Ph.D. and also in Post Doctoral Program, either in the home country or elsewhere abroad (e.g. in different Europe and Australia Universities) mainly through scholarship.

Graduation Requirement

Total Cr.Hr 147

For further information please contact:

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Department of Plant Science and
Horticulture

THANK YOU FOR JOINING US

Horticulture