



Grant agreement number: 101128862

PROJECT TITLE

DEVELOPMENT BY BUILDING CAPACITY IN PLANT BREEDING AND BIOTECHNOLOGY EDUCATION AND RESEARCH THROUGH PARTNERSHIP PROGRAM IN AFRICA, MIDDLE EAST AND EUROPE FOR AGRICULTURAL TRANSFORMATION (BREEDTECH) PROJECT

DELIVERABLE REPORT WP3: D3.3 D17 REPORT ON OFFICIAL APPROVAL OF DEVELOPED CURRICULUM

Submitted by BREEDTECH Project team

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August, 2025





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1.0 Overall Summary

The BREEDTECH project, funded by the European Union, aims to strengthen educational programs, by incorporating cutting edge technologies in the ongoing programs, and by developing new curricula at partner institutions in Africa and Middle East. Accordingly, all the six partner institutes in three countries (two each in Kenya, Ethiopia and Palestine) reviewed/developed new curricula which were presented for approval by the regulatory bodies in their respective institutions and countries. All the partner institutions tailored their course content to fit its academic framework while maintaining core competencies outlined in the BREEDTECH project. However, partners encountered challenges in terms of implementation speed due to the variations in institution capacity and regulations, effective delivery of new course contents, and limited access to the specialized laboratory. Based on the commitment, all the partners agreed on the addressed the existing challenges and achieved the project goals. In total, 13 curricula have been reviewed/updated/developed of which 5 newly developed curricula (4 at Laikipia University, Kenya and 1 at Oda Bultum University, Ethiopia) requires approval at Ministry level, whereas remaining 8 existing curricula requires to be approved only at University Senate level. Out of 5 new curricula developed, 2 got approval (1 at Laikipia University, Kenya and 1 at ODA Bultum University, Ethiopia) at Ministry level, of which one at Oda Bultum University, Ethiopia started piloting from the academic session 2024-24 and other will begin from next session (2025-26). However, the institute is hoping to get approval for the remaining 3 new curricula before the start of new academic session. Out of 8 reviewed curricula, 7 are in piloting phase, however the complete implementation of 2 curricula (1 at Laikipia University, Kenya and another at Haramaya University, Ethiopia) will begin from the academic session 2025-26. Overall, the approvals of the curricula under the BREEDTECH project have been largely successful, setting a strong foundation for future adoption. Continuous support and collaboration among partner institutions is key in ensuring sustainability and scalability of the curriculum implementation





2.0 Institutional Curriculum Approval Reports

2.1 Egerton University

Egerton University has reviewed four programmes, all at PhD level. As all the programmes were existing programs, it doesn't need approval at Ministry level. All the reviewed curriculums were presented to the Board of Post Graduate Studies (BPGS) through chair Department of Crops Horticulture and Soils (CHS) and Dean Faculty of Agriculture (FOA), and were approved for teaching in 2024/2025 Academic year. The piloting phase of all the programs is ongoing.

S.No.	Curriculum name	New/updated/Reviewed	Description of the approval
1.	Doctor of Philosophy in plant Breeding,	Reviewed	Approved at University Senate level
2.	Doctor of Philosophy in Biotechnology,	Reviewed	Approved at University Senate level
3.	Doctor of Philosophy in Crop Protection	Reviewed	Approved at University Senate level
4.	Doctor of Philosophy in Dryland Agriculture and Resource Management	Reviewed	Approved at University Senate level

Links to the revised curriculums

PhD Plant Breeding: <https://chs.egerton.ac.ke/academic-programmes/doctorate-degrees/Doctor-Of-Philosophy-In-Plant-Breeding>

PhD Biotechnology: <https://chs.egerton.ac.ke/academic-programmes/doctorate-degrees/Doctor-Of-Philosophy-In-Plant-Biotechnology>

PhD Crop Protection: <https://chs.egerton.ac.ke/academic-programmes/doctorate-degrees/Doctor-Of-Philosophy-In-Crop-Protection>

PhD Dryland Agriculture and resource Management: <https://chs.egerton.ac.ke/academic-programmes/doctorate-degrees/Doctor-Of-Philosophy-In-Dry-Land-Agriculture-And-Resource-Management>

2.2 Laikipia University

Four programmes have been developed. These include: PhD in Plant Pathology, MSc in Plant Pathology, MSc in Molecular Biology and Biotechnology, and BSc in Molecular Biology and Biotechnology under the BREEDTECH programme. MSc in plant Pathology program has been assessed by Commission for University Education (CUE) of Kenya, had a virtual engagement with Laikipia University followed by a physical visit on 23rd May 2025 for site and facility inspection, as well as thorough course and staff evaluation. The Commission approved MSc in Plant Pathology for launching/piloting in September 2025 upon making the minor corrections in the curriculum and appointment of a program leader. PhD in Plant





Pathology, MSc in Molecular Biology and Biotechnology, and BSc in Molecular Biology and Biotechnology have gone through the Dean's Committee which is the last stage before they are forwarded and presented at the University Senate (at beginning of the September-December Semester of 2025) for further presentation to CUE where the process now becomes external and is beyond the control of the institution. One course was reviewed and courses related to Biotechnology and Breeding included accommodating the BREEDTECH project objectives. The course reviewed was formerly called BSc Utilization of Arid and Semi-Arid Lands (USAL) and is now called BSc. Dry Land Resource Management (DREM). The course will be presented in the University Senate (September-December Semester of 2025) then it will be ready for piloting.

S.No.	Curriculum name	New/updated/Reviewed	Description of the approval
1.	PhD in Plant Pathology	New	Approved at Deans Committee proceeding to University Senate
2.	MSc in Plant Pathology	New	Approved by Commission of University Education
3.	MSc in Molecular Biology & Biotechnology	New	Approved at Deans Committee proceeding to University Senate
4.	BSc in Molecular Biology & Biotechnology	New	Approved at Deans Committee proceeding to University Senate
5.	BSc in Dryland Resource Management (DREM)	Reviewed and BREEDTECH related courses inserted	Approved at Deans Committee proceeding to University Senate





Laikipia University faculty and CUE representatives During Physical evaluation and approval of MSc Plant pathology Program on 23rd May 2025

2.3 Haramaya University

Four new courses (Genomics and Bioinformatics, Molecular breeding, Plant Tissue Culture, and Scientific writing) have been included in the revised MSc in Plant Breeding program, whereas major revisions have been made in other courses. As the Plant Breeding Program is an ongoing program at Haramaya University, it didn't need approval at Ministry level, however for fully implementing the revised curriculum, it has to be approved at University Senate level. Although the revised curriculum is in piloting phase, it is proceeding for Senate approval for fully implementing the same from the new academic session 2025-26.

S.No.	Curriculum name	New/updated/Reviewed	Description of the approval
1.	MSc in Plant Breeding	Reviewed	Proceeding to Senate approval

2.4 Oda Bultum University

Oda Bultum University has introduced five new courses in its newly developed MSc in Plant Breeding program, along with major revisions to four existing courses. The curriculum was developed between July and December 2024, followed by two review workshops: 1. Internal Curriculum Review Workshop: Involved two senior plant breeders, one pedagogical expert, and one language editor. 2. External Curriculum Review Workshop: Engaged external specialists in plant breeding, plant biotechnology, and bioinformatics. After receiving approval at the Department, College, and University Senate level, the MSc in Plant Breeding program was officially launched on March 1, 2025 and enrolled students have successfully completed the course-work.

S.No.	Curriculum name	New/updated/Reviewed	Description of the approval
1.	MSc in Plant Breeding	New	Approved by University Senate. Program is ongoing

Links to the new curriculum development (OBU)

- Internal curriculum review workshop to launch the M.Sc. program in plant breeding:**
<https://www.facebook.com/100063922628443/posts/pfbid0kAQhP1r3T2KgATybfFTMomqFNbg8piZXtLNXvUUreNYWAmwoUYya8m7BNRdBww7Fl/?app=fbl>
- External curriculum review workshop to develop an MSc program in Plant Breeding;**
<https://www.facebook.com/100063922628443/posts/pfbid02mQhtmCDnSRENfPQcT38ibf8m2wt9M5nW4CgrV3EjCm3Zb8cQDMhtjHh2GwbC1jvXI/?app=fbl>
- External curriculum review workshop for launching the MSc Plant Breeding program, featured on OBN TV to enhance public outreach:**
<https://www.facebook.com/share/v/19js4TasHY/>





2.5 Al-Quds Open University (QOU)

The newly proposed course (Principles of Plant Breeding) by AlQuds Open University team under the Principles of Plant Breeding program has been approved by the Academic council of the University on 10 September 2024 (decision No. 204) as elective course/ 3 credit hours. However, piloting of this new course will start from the beginning of the new academic session in 2026.

S.No.	Curriculum name	New/updated/Reviewed	Description of the approval
1.	BSc in Plant production and protection	Updated	Approved at academic council level as an elective course (3 credit hours)

2.6 An-Najah National University (ANNU)

Both the courses, Technology of Crop Improvement and Genetic Engineering reviewed and upgraded under the BSc in Agriculture Engineering were presented to the Board of the faculty of Veterinary Medicine and Agricultural Engineering, and approved at Academic Council level of the University. However, piloting of these courses will start from the new academic session in 2026.

	Curriculum name	New/updated/Reviewed	Description of the approval
1.	BSc in Agriculture Engineering	Updated	Approved at Academic Council level.

3.0 Conclusion

In conclusion, under the umbrella of BREEDTECH project, a total of 13 programmes in the higher learning institutes of Kenya, Ethiopia and Palestine have been benefited. Out of 13 programmes, 5 are newly launched (4 in Laikipia University and 1 in Oda Bultum University) programmes, which is a great contribution towards the capacity development in Africa. Out of 5 new programmes developed in Kenya and Ethiopia, one each in Kenya and Ethiopia got approval at Ministry level. The new MSc in Plant Breeding program launched at ODA Bultum University is already in piloting phase, whereas the MSc in Plant Pathology program approved at Laikipia University will start piloting from the start of the new academic session. Additional new programmes developed are waiting for approval. For remaining 8 programmes which have undergone the process of revision/upgradation, approval at University level is good to proceed, of which 6 got approval and 2 proceeding for approval at University Senate level. Overall, significant progresses have been made under this deliverables of WP3.





4.0 Appendices

Appendix 1: Egerton University Submission of Reviewed Postgraduate Programs to Board of postgraduate Studies

EGERTON



UNIVERSITY

P.O. Box 536-20115
Egerton, Kenya

DEPARTMENT OF CROPS, HORTICULTURE AND SOILS

TO: Director, BPGS

Thro' Dean FOA

FROM: COD CHS

REF: EU/AA/CHS/031

DATE: 5th March, 2025

RE: REVIEWED POSTGRADUATE PROGRAMMES DEPARTMENT OF CHS

I wish inform you that department of CHS forwarded to your office 15 reviewed programmes, listed below, via email (bpgs@egerton.ac.ke), on 29th January, 2025.

Master's Degrees (8)

- (ii) Master of Science in Agricultural Information and Communication Management
- (v) Master of Science in Agronomy
- (vi) Master of Science in Crop Protection
- (ix) Master of Science in Horticulture
- (xii) Master of Science in Dryland Farming
- (xv) Master of Science in Plant Biotechnology
- (xvi) Master of Science in Plant Breeding
- (xvii) Master of Science in Soil Science

Doctorate Degrees (7)

- (iii) Doctor of Philosophy in Agronomy
- (v) Doctor of Philosophy in Crop Protection
- (vi) Doctor of Philosophy in Dryland Agriculture and Resource Management
- (viii) Doctor of Philosophy in Horticulture
- (ix) Doctor of Philosophy in Plant Biotechnology
- (x) Doctor of Philosophy in Plant Breeding
- (xi) Doctor of Philosophy in Soil Science

Thank you.

Prof. Joyce J. Lelei, PhD
COD CHS





Appendix 2: Laikipia University Msc Plant Pathology approval by Kenya Commission for university Education

Attachment 22082025_LU_WP 4 Impact and Dissemination.docx added.
Conversation opened. 1 read message.

[Skip to content](#)
[Using Laikipia University Mail with screen readers](#)



2 of 10,871

Fwd: Site inspection Laikipia- Friday, 23rd May 2025

Inbox



Dr. Daniel Pande 1:59 PM (2 hours ago)

to me

----- Forwarded message -----

From: **Dean Science & Applied Technology** <deanscience@laikipia.ac.ke>
Date: Wed, May 21, 2025 at 1:07 PM
Subject: Fwd: Site inspection Laikipia- Friday, 23rd May 2025
To: Dr. Daniel Pande <dpande@laikipia.ac.ke>, Wilda Onyancha <wonyanacha@laikipia.ac.ke>

----- Forwarded message -----

From: **Directorate of Quality Assurance and Standards** <dqas@laikipia.ac.ke>
Date: Wed, 21 May 2025, 12:52
Subject: Fwd: Site inspection Laikipia- Friday, 23rd May 2025
To: Dean Science & Applied Technology <deanscience@laikipia.ac.ke>, Abaja Poti Owili <powili@laikipia.ac.ke>, Deputy Vice-Chancellor Academics and Research <dvcar@laikipia.ac.ke>

----- Forwarded message -----

From: **Sarah Ooro** <sooro@cue.or.ke>
Date: Wed, 21 May 2025, 12:44
Subject: Site inspection Laikipia- Friday, 23rd May 2025
To: Directorate of Quality Assurance and Standards <dqas@laikipia.ac.ke>





Appendix 3: Oda Bultum University Approval of M.sc in plant breeding curriculum at department (DC) level

Minute of Plant science department council meeting

Started: 3: 00 local time

Ended: time 6:00 local time

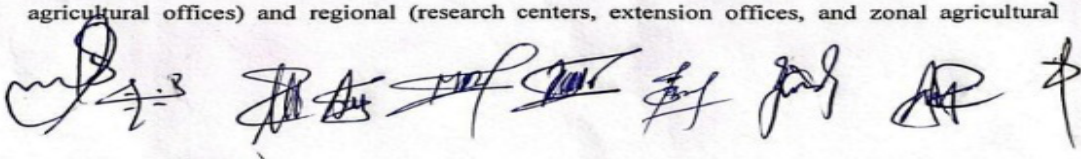
Place of meeting: plant science staff office

Participants;



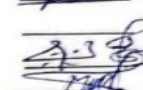
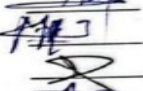




<u>Name</u>	<u>Responsibility</u>
1. Ahmed Beyan	Chairperson
2. Tilahun Tsegaye	Member
3. Mulat Aydegnachew	Secretary
4. Dr. Masarat Elias	Member
5. Dr. Dawit Getahun	Member
6. Biruk Tesfaye	Member
7. Megersa Dinsa	Member
8. Bedasa Soresa	Member
9. Amare Balew	Member
10. Andualem Melku	Member
11. Aregash Bantie	Member

Agenda: - Approval of M.Sc. in Plant breeding curriculum at department level

The meeting started by the department head (chairperson) explained the agenda to department staff members. The agenda issue was M.Sc. in plant breeding curriculum approval at the department level. The staff discussed in detail the suitability of university infrastructures and facilities that make the teaching and learning process comfortable. Having efficient and skilled manpower, well-equipped laboratories for different disciplines, Greenhouse, smart postgraduate classrooms, the availability of student dormitories, seminar presentation halls, and the existence of University research sites at different agro ecologies make commendable the program to be launch. Need assessment were conducted at several federal (universities, research institutions, and agricultural offices) and regional (research centers, extension offices, and zonal agricultural



Finally, after reviewed the program in details and engaging in a discussion, the DC plant science approved the curriculum of the program for advancement. The DC meeting ended at six o'clock local.

<u>Name</u>	<u>Role</u>	<u>Signature</u>
1. Ahmed Beyan	Chairperson	
2. Tilahun Tsegaye	Member	
3. Mulat Aydegnachew	Secretary	
4. Dr. Masarat Elias	Member	
5. Dr. Dawit Getahun	Member	
6. Biruk Tesfaye	Member	
7. Megersa Dinsa	Member	
8. Bedasa Soresa	Member	
9. Amare Balew	Member	
10. Andualem Melku	Member	
11. Aregash Bantie	Member	





Appendix 4: Oda Bultum University Approval of M.sc in plant breeding curriculum at college of agriculture (AC) level

Date: July/21/2024

Academic commission Minute

Started: 3: 00 local time (morning)

Ended: time 5: 00 local time (morning)

Venue: College Dean office

Participants;

Name	Responsibility
1. Mr. Sultan Usman	College Dean, chairperson
2. Mr. Ahmed Beyan	Head, department of Plant Science, Secretary
3. Mr. Yosef Alemneh	Head, Food science and post-harvest technology, Member
4. Mr. Mokenin Tinsew	Head, department of Horticulture, Member
5. Mr. Abbas Hassen	Head, Department of Animal Science, Member
6. Mr. Edosa Tadesse	Head, department of Agricultural Economics, Member
7. Mr. Ahmed Abraham	Head, department of Agribusiness & Value Chain Mngt, Member

Agenda: Requesting approval of newly launching MSc. program in plant breeding

The chairperson Mr. Sultan Usman (College dean) started the meeting by presenting the agenda to its AC council members about the newly launching MSc program in plant breeding. Accordingly, the department of plant science requested for approval to start a new M.Sc. program in plant breeding. Thus, the AC members addressed the issue seriously observed the importance of the program to be launched is ultimately benefit agricultural practices in generally and large communities in multiple ways in particularly. The department's staff resources and facilities for engaging with the program were also considered by the members of the AC council. In addition, in order to support the program, labs, glass houses, research fund, and skilled professionals with plant breeding and biotechnology experience will be available to advise and teach students through BREEDTECH project with the objective to support the program. This is an excellent opportunity to teach the students to modern biotechnology and plant breeding methods and technologies. Thus, The AC members agreed on the importance of the program to start as Dr. Amin Muhammad's



representative had been awarded a BREEDTECH project grant. After detail discussion held on the agenda, the AC council members agreed on a decision. Therefore, the AC meeting reached an end with this decision. at 5:00 local time

Participants of the Meeting

Name	Signature	Date
1. Mr. Sultan Usman		July 21, 2024
2. Mr. Ahmed Beyan		
3. Mr. Edosa Tadesse		
4. Mr. Ahmed Abraham		
5. Mr. Yosef Alemneh		
6. Mr. Mokenin Tinsew		
7. Mr. Abbas Hassen		





Appendix 5: Oda Bultum University Approval of M.sc in plant breeding curriculum at University Senate level

ODA BULTUM UNIVERSITY

Minute of Senate Meeting (MSM-2-I 2024/25)

Senate Minute type: Regular

Date: 01/01/2025

Venue: OBU Senate Hall

Time: 9:00 AM

Members

1. Prof. Muktar Mohammed	Chairperson
2. Dr. Ibsa Ahmed	Member
3. Mr. Alemayehu Beyene	Member
4. Mr. Getachew Gashaw	Member
5. Mr. Estifanos Abera	Member
6. Mr. Husen Yusuf	Member
7. Mr. Feyisa Debela	Member
8. Mr. Abdulaziz Hussien	Member
9. Dr. Timketa Dagne	Member
10. Mr. Sultan Usman	Member
11. Dr. Ahmedin Adurehman	Member
12. Mr. Abebe Taye	Member
13. Mr. Mufedi Mohammed	Member
14. Dr. Mohammed Gobeze	Member
15. Mrs. Kerima Rehmato	Member
16. Mr. Ararsa Gudisa	Member and secretary
17. Mr. Tekalign Diyana	Member
18. Mrs. Zimta Kidane	Member
19. Mr. Temesgen Terefe	Member
20. Mr. Zekariya Abdurehman	Member
21. Mr. Samuel Abdisa	Member
22. Mr. Lelisa Shemshedin	Member

Agenda

1. Approval of Masters of Science (MSc) in Plant Breeding
2. AOB

Degree Nomenclature

English version: Masters of Science in Plant Breeding

Amharic version: የላይንስ ማስተርስ በስዕል ስራ ሳይንስ

Study duration: 2 years

Total courses for the program: 14

Total credit hours: 40

Getachew Gashaw (Asst. Prof); Director, Academic Program and Staff Development, presented the proposed MSc. in **Plant Breeding** curriculum to the Senate. He explained that the program has been developed in response to national and global demands for professionals capable of improving crop productivity, resilience, and quality to address food security challenges. The program is structured over two years, consisting of advanced coursework in classical and molecular breeding, quantitative genetics, biotechnology, and biostatistics, together with practical training, seminars, and a thesis research component. It has been benchmarked against international standards and designed in alignment with Ethiopia's agricultural priorities.

The Director emphasized that quality assurance measures have been integrated into the program, including continuous assessments, external examiners, periodic curriculum review, and collaboration with research institutes and national and international stakeholders to ensure its relevance and excellence.

The program is aligned with national development priorities, addresses food security challenges, and meets international standards in postgraduate education. All comments and suggestions forwarded by the internal and external curriculum reviewers sensibly incorporated.

Senate members deliberated on the program's structure, course distribution, course loads, resources, and implementation strategy. Suggestions were made to strengthen linkages with national priorities, ensure laboratory and field facilities are adequate, and enhance collaboration with international partners.

After due consideration, the Senate approved the MSc. in **Plant Breeding** curriculum for implementation starting as of 2024/25 academic year with minor modifications as recommended.

- The curriculum will be forwarded to the University Administrative Board for endorsement.
- Following endorsement, it will be submitted to the Ministry of Education and Education and Training Authority (ETA) for final approval and accreditation.

The meeting adjourned at 10:30 AM





Appendix 6: Al Quds Open University curriculum approval

Al-Quds Open University Vice Pres. for Acad. Affairs Office Jerusalem - P.O. Box 51800 - Postcode: P1020036 Tel: 02/5817237 - 02/5816239 Fax: 02/5816734 Email: academic_vp@qou.edu		جامعة القدس المفتوحة مكتب نائب الرئيس للشؤون الأكاديمية القدس - ص.ب 51800 - الرمز البريدي: P1020036 هاتف: 02/5817237 - 02/5816239 فاكس: 02/5816734 بريد إلكتروني: academic_vp@qou.edu
---	---	---

Ref. : الرقم : أ.ش. ك / 251 / 2024

Date : التاريخ : 2024/12/16م

حضرة د. خالد حردان المحترم

عميد كلية الزراعة

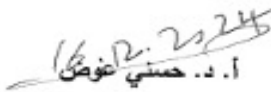
تحية طيبة وبعد،،

الموضوع: قرار جلسة المجلس الأكاديمي رقم (204)

طرح مقرر "مبادئ تربية النباتات"

فأهديكم أطيب التحيات، وأعلمكم بقرار المجلس الأكاديمي في جلسته رقم (204) المنعقدة بتاريخ 2024/12/10م،
بالموافقة على طرح مقرر "مبادئ تربية النباتات" بوزن (3) ساعات معتمدة لجميع تخصصات كلية الزراعة ضمن
مقررات التخصص الاختيارية، للإجراء وفق الأصول.

وتفضلوا بقبول فائق الاحترام والتقدير،،،


أ.د. حسني حنوني
رئيس المجلس الأكاديمي

نسخة:

- أ.د. رئيس الجامعة حفظه الله.
- أ.د. مساعد نائب الرئيس للشؤون الأكاديمية المحترم.
- د. عميد القبول والتسجيل والامتحانات المحترم.
- أعضاء المجلس الأكاديمي المحترمين.
- الملف.





5.0 Acknowledgement

Building capacity in plant breeding and biotechnology education and research through partnership program in africa, middle East and Europe for Agricultural Transformation (BREEDTECH) Project acknowledges the contribution of the curriculum teams from Egerton and Laikipia Universities Kenya; Haramaya and Oda Bultum Universities Ethiopia; Open University and An Najah National University Palestine. Also, BREEDTECH project team acknowledges the European Union funding Grant agreement number: 101128862. The project is co-funded by Erasmus+ Programme of the European Union. This has enabled the 6 universities in Kenya, Ethiopia and Palestin to develop and review courses within over 20 curricullums at Bachelors, Masters and Doctorate levels.

