

Agricultural Genetic Engineering PhD Program Outcomes

1. Will have an advanced knowledge on genetics and molecular genetics and can apply them.
2. Knows and apply the basic techniques of plant biotechnology and tissue culture.
3. Can establish and implement plant breeding programs.
4. Knows molecular marker techniques used in plant breeding and can make application of them.
5. Knows the issues of breeders' rights and professional ethics. Gain sense of social responsibility. Can plan and apply projects and activities for social environment.
6. Have knowledge of the legal regulations on issues of agricultural genetic engineering, plant breeding, genetic resources and seed production,
7. Can establish and implement seed production programs for different plant species,
8. Knows issues of protection of agricultural genetic resources, development and evaluation of them.
9. Have a basic knowledge of agricultural bioinformatics and can make applications of it.
10. Will have the ability of identification problems, the ability of interpretation problems and the ability to find solutions to problems on issues emerging in agricultural genetic engineering. Knows to validate the obtained knowledge. Gain ability of lifelong learning.
11. Gain ability of project preparation, independent research execution and finalization. Gain ability to use computer software, technologies and modern tools related to agricultural genetic engineering issues.
12. Can make data collection, analysis, interpretation and reporting procedures related to researches of agricultural genetic engineering.
13. Gain ability to follow and interpret scientific and technological developments in the related field. Conceive the interdisciplinary interaction which the field is related with; come up with original solutions by using knowledge requiring proficiency on analysis, synthesis and assessment of new and complex ideas. Gain ability of working together with different disciplines.

14. Gain professional and ethical responsibility. Take responsibilities to solve complex and unpredictable problems encountered in applications related to the field as an individual and a team member. Demonstrate leadership in contexts requiring problem solving.
15. Gain ability to explain and teach gained knowledge and experience related to agricultural genetic engineering areas to students, colleagues, and other interested people. Can make effective written and oral presentation in national and international environment in the related field. Gain ability of publishing at least one scientific paper in the field in national and/or international refereed journals.
16. Develop and deepen the current and advanced knowledge in the field with original thought and/or research and come up with innovative definitions.
17. Contribute to the development of the field by carrying up an original research and producing new ideas and knowledge. Gain ability of being able to contribute to proses of being an information society by introducing technological, social and cultural progress in academic and professional sense.