Department of general Science

College of basic education

University of Salahaddin -Hawler

Subject: Genetics

Course Book – *Second year*

Lecturer's name: Dr.Shahla Mahmud Muhamad

Academic Year: 2021-2022

Course Book

1. Course name	**Genetics**
2. Lecturer in charge	Dr.Shahla Mahmud Muhamad
3. Department/ College	Basic science department
4. Contact	**e-mail:** shahla.muhamaad@su.edu.krd **Tel: (optional)**
5. Time (in hours) per week	**For example Theory: 2** **Practical: 0**
6. Office hours	**Availability of the lecturer to the student during the week**
7. Course code	
8. Teacher's academic profile	**Phd in genetic science , teacher in the University for 40 years**
9. Keywords	

10. Course overview:

Importance of this science in our life and its Applications

11. Course objective:

Defination of genetics , history of genetics , mendelian genetics , monohybrid crosses , dihybrid crosses , mitosis and meiosis , recombinant of DNA technology , mutation and type of mutations

12. Student's obligation

In this section the lecturer shall write the role of students and their obligations throughout the academic year, for example the attendance and completion of all tests, exams, assignments, reports , essays…etc

لێرە مامۆستا بەرپرسیارێتی قوتابی خوێندکار ڕوونەکاتەوە سەبارەت بە کۆرسەکە بۆ نموونە ئامادەبوونی قوتابیان لە وانەکاندا، لە تاقیکردنەوەکاندا، ڕاپۆرت و ووتار نووسین... هتد.

13. Forms of teaching

Data show , power point with explanations on the whiteboard

14. Assessment scheme

Grade Weighting نمرەی هەڵسەنگاندن

Semester	Practical degree %	Theory		
		Seasonal Exam.	Quizzes	Dailey Activities
1st semester		15	2	3
2nd semester		15	2	3
Final Exam.		60		
Total 100%				

15. Student learning outcome:

56 hours Theory without practical

16. Course Reading List and References:

1. ***Genetics: Analysis and Principles***, by Robert Booker
2. ***Principles of Genetics*** by Gardner
3. ***Genetics: A Molecular Approach*** by T. A. Brown
4. ***Concept of Genetics*** by Klug
5. ***Genetics***: A conceptual Approach by Pierce
6. ***An introduction to Genetic Analysis*** by Griffiths

17. The Topics:	**Lecturer's name**
- Introduction to Genetics - Mendelian Genetics - Monohyrbrid Crosses - Dihybrid and Trihybrid Crosses - Mendel modified: Incomplete Dominence ,Lethal Alleles and multiple Allel. - Extensions of Mendelian Genetics - Pedegrees and Probabilities - Mitosis and Miosis - Gene Mutation and DNA Repair - Recombinant DNA Technologie - Basic Priciples of Heredity - Sex Determination and Sex-linked characteristics - Chromosome Mutations - Point Mutation number structural Mutation	Dr.Shahla Mahmud Muhamad
18. Practical Topics (If there is any)	
In this section The lecturer shall write titles of all practical topics he/she is going to give during the term. This also includes a brief description of the objectives of each topic, date and time of the lecture	Lecturer's name ex: (3-4 hrs) ex: 14/10/2015

19. Examinations:

Multiple choices , filling of blankets , drawing , cycles , correction of texts

20. Extra notes:

Here the lecturer shall write any note or comment that is not covered in this template and he/she wishes to enrich the course book with his/her valuable remarks.

21. Peer review پێداچوونەوەی هاوەڵ

This course book has to be reviewed and signed by a peer. The peer approves the contents of your course book by writing few sentences in this section.

(A peer is person who has enough knowledge about the subject you are teaching, he/she has to be a professor, assistant professor, a lecturer or an expert in the field of your subject).

ئەم کۆرسبووکە دەبێت لەلایەن هاوەڵێکی ئەکادیمیەوە سەیر بکرێت و ناوەڕۆکی بابەتەکانی کۆرسەکە پەسەند بکات و جەند ووشەیەک بنووسێت لەسەر شیاوی ناوەڕۆکی کۆرسەکە و واژووی لەسەر بکات.

هاوەڵ ئەو کەسەیە کە زانیاری هەبێت لەسەر کۆرسەکە و دەبیت پلەی زانستی لە مامۆستا کەمتر نەبێت.