

Course Book

1. Course name	DNA finger Printing
2. Lecturer in charge	Ahmed Nawzad Hasan
3. Department/ College	Criminal Evidences
4. Contact	e-mail: ahmed.nawzad@epu.edu.krd Mob: 07504498828
5. Time (in hours) per week	example Theory: 2
6. Office hours	5 hrs/day
7. Course code	GEF405
8. Teacher's academic profile	Born on 05/07/1983 at Erbil, Iraq. Finished secondary school in Erbil 2002 then moved to undergraduate study in Biology department, University of Salahaddin 2002-2003/2005-2006. Then worked in Hikma pharmaceutical company as medical representative till 2008, after that worked as lecturer in Medical Technical Institute till 2013. I Finished Master degree (M.Sc.) on 2016 from college of Salahaddin. Working permanent as assistant lecturer at Erbil Technical Health College/Erbil Polytechnic University.
9. Keywords	
10. Course overview:	In this course, students will learn about DNA finger printing including: Introduction to Finger printing. What is DNA finger printing? Steps and process of it Sample collection Sample processing
11. Course objective:	(1) Students will be able to analyze DNA finger printing. (2) Students will be able to sample collection. (3) Students will be able to extract genetic materials. (4) Students will be able to evaluate extracted materials. (5) Doing PCR and interpretation of results.
12. Student's obligation	Students will be required to present a seminar within a team of 2 or 4 students, a topic choose by them and supervised by the lecturer, also each student must participate in practical labs.
13. Forms of teaching	lecture halls with computer for lecture presentations, white board, and data show,

group discussion, role play.

14. Assessment scheme

Student performance	First semester	Second semester	Total annual marks
Exam	30	30	30
Activities	10	10	20
Report	10	10	20
Total marks	50	50	50

15. Student learning outcome:

At the end of the course students will be able to participate in an this subject doing the process by them. **Understanding the whole steps**

16. Course Reading List and References:

Communication Skills (www.practicebasedlearning.org)

Debate (www.graduateskills.edu.au)

17. The Topics:

Lecturer's name

Introduction	Ahmed N. Hassan (2 hrs) 09/2023
What is DNA finger printing? What are the steps	Ahmed N. Hassan (2 hrs) 09/2023
Sample collection and processing	Ahmed N. Hassan (2 hrs) 10/2023
Extraction of the genetic materials	Ahmed N. Hassan (2 hrs) 10/2023
Estimation of the genetic materials	Ahmed N. Hassan (2 hrs) 10/2023
Polymerase chain reaction	Ahmed N. Hassan (2 hrs) 10/2023
Presentation , Writing & Presenting Speeches, Oral Presentations PowerPoint Slides, Vocabulary and Grammar	Ahmed N. Hassan (2 hrs) 10/2023
Reading the results of PCR	Ahmed N. Hassan (2 hrs)

	11/2023
Presenting seminars	Ahmed N. Hassan (2 hrs) 11/2023
Presenting seminars	Ahmed N. Hassan (2 hrs) 11/2023
Visiting criminal evidences directorate	Ahmed N. Hassan (2 hrs) 12/2023
Visiting research center laboratories for practical work	Ahmed N. Hassan (2 hrs) 12/2023
Visiting research center laboratories for practical work	Ahmed N. Hassan (2 hrs) 12/2023
18. Practical Topics (If there is any)	
Practical section will be included within theoretical lectures in form of real laboratory works .	
19. Examinations: There will be two exams through the course, one theory and one practical. The final exams will be carried out according to the formal schedule.	
20. Extra notes:	
21. Peer review 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. <i>(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).</i> ئەم كۆرسىبووكە دەبىت لەلایەن ھاوملىكى ئەكادىمىيە سەير بىكرىت و ناوهرۆكى بابەتەكانى كۆرسەكە پەسەند بىكات و جەند ووشەيك بنوسىت لەسەر شىاوى ناوهرۆكى كۆرسەكە و واژووى لەسەر بىكات. ھاومل ئەو كەسەيكە زانىارى ھەبىت لەسەر كۆرسەكە و دەبىت پلەى زانستى لە ماموستا كەمتر نەبىت.	پىداچونەوھى ھاومل