Module description

-Module title: Molecular Biology– practical part.

-Module code: BCH 361

-Year: 1438-1439H (2018) – Second semester.

-Module objective:

• Practical knowledge in the molecular biology field.

• Understand the principles behind basics molecular biology techniques.

• Working in basic experiments of molecular biology lab.

-Mark distribution:

Total mark is 25:

- 4 marks for quizzes.
- 4 marks for analysis sheet.
- 2 marks for homework.
- 3 marks for presentation.
- 12 marks for final exam.

-Module experiments:

NO.	Experiment Title	Date
1	Introduction to Molecular Biology.	15-5-1439
		1-Feb-2018
2	DNA Extraction from Blood.	22-5-1439
		8-Feb-2018
3	DNA Extraction from Plant Tissue.	29-5-1439
		15-Feb-2018
4	Characterization of DNA by Spectrophotometric Assay and	6-6-1439
	Melting Temperature (Tm).	22-Feb-2018
5	Agarose Gel Electrophoresis (AGE).	13-6-1439
		1-Mar-2018
6	Polymerase chain reaction (PCR) and primer design.	20-6-1439
		8-Mar-2018
7	PCR- Optimization of Annealing	27-6-1439
	Temperature	15-Mar-2018
8	PCR Troubleshooting.	5-7-1439
		22-Mar-2018
9	Digestion of DNA with Restriction Enzymes.	12-7-1437
		29-Mar-2018
10	Sanger Sequencing.	19-7-1439
		5-Apr-2018
11	Presentation.	29-7-1439
		15-Apr-2018

⁻Final exam date: