

جامعة الملك سعود  
كلية العلوم  
المختبر المركزي



## 1) The workshop in Central laboratory:

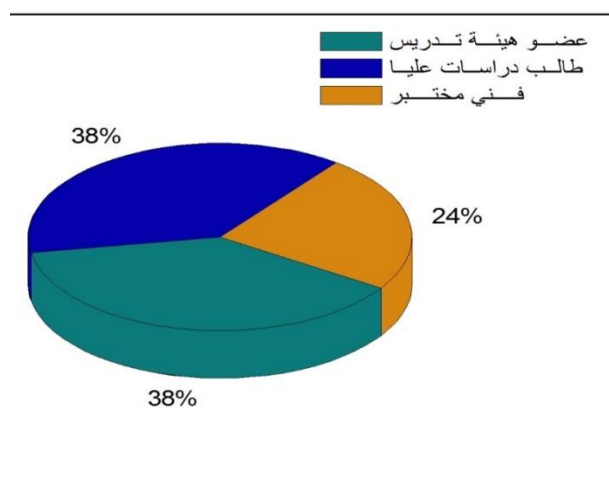
Central laboratory made three specialized workshop in elemental analysis, AutoChem Analyzer device, and differential scanning device.

The following table shows the present the details as follows:

Name Established session	The number of faculty members	Number technician Laboratory	The number of graduate students	Total
CHNS analysis elements / O	٤	٥	٦	١٥
AutoChem Analyzer	٥	٣	٣	١١
Differential thermal scanning device	٧	٢	٧	١٦
<b>Total overall attendance for all sessions</b>	<b>١٦</b>	<b>10</b>	<b>١٦</b>	<b>٤٢</b>

Table (2) sessions held central laboratory

The proportion of teaching staff and technicians and students in



the courses of the Central Laboratory

## **2) The Central laboratory courses available**

1. DNA extraction DNA from biological samples.
2. Electrophoresis by agarose gel.
3. DNA and its applications in the PCR.
4. Writing genes.
5. Riel Time .PCR
6. Gene expression and extract the protein in bacteria.
7. Technology separation and characterization of bacteria from the soil and biological samples.
8. Preparation and examination of biological and non-biological samples using Transmission Electron microscope.
9. Methods of preparation and examination of biological and non-biological samples using Scanning Electron microscope-mail scanner.
10. ELISA technique and its applications
11. Bhlotenq of Western technology and its applications

## **3) The new devices available in central laboratory**

1. Dynamic mechanical Analyzer.
2. Mastersizer
3. Kromotojgrave gas and mass spectrometry.
4. Zetasizer
5. Robert balance
6. Confocal microscope
7. Spectrophotometer for nano-metric drops
8. liquefied nitrogen production
9. Counting blood cells device.
10. AutoChem Analyzer

11. NMR device.
12. X-ray fluorescence device.
13. Plasma mass spectrometer device.
14. Direct mass spectrum analysis device