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## **Malkol Knowledge Centre offers following Industrial Training modules for Life Science Graduates and post graduates:**

**MODULE TITLE: REAL TIME DIAGNOSTICS ANALYSIS**

**COURSE CODE: MKC/LS/01**

**Duration: 15days**

**COMPONENTS COVERED:**

Thyroid analysis (T3,T4,TSH)

- Blood Grouping
- LFT( Liver Functioning tests)
- Stainings, Microcultures
- Electrolytes, Arterial Blood Gases

### **PATHOLOGY**

- Haemoglobin, RBC, WBC, TC, DC, platelet Count, ESR,CUE

### **BIOCHEMISTRY**

- Random Blood Sugar
- Serum Creatinine, Serum Pottasium
- Total Serum Bilirubin
- SGPT,SGOT, Serum Akaline Phosphatase
- Total Serum Protein, Serum Albumin
- Serum Globulin,A/G Ratio
- Serology
- HIV,HBsAg

**Limited Registrations on first cum first serve basis, for details, Contact at 040-40126777,**

**Alternatively, email at [info@malkol.in](mailto:info@malkol.in) mentioning 'Enquiry: Industrial Training –Life Sciences' on the subject line.**

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**MODULE TITLE: Molecular and Immunological Techniques and Clinical Research**

**COURSE CODE: MKC/LS/02**

**Duration: 15days**

**COMPONENTS COVERED:**

- PCR
- ELISA
- Isolation of Viral Nucleic Acids( RNA&DNA)
- Electrophoresis

**CLINICAL RESEARCH**

- GCP (Good Clinical Practice) Guidelines
- Informed Consent Form( ICF)
- Patient counseling
- Clinical monitoring
- Preparation of CRF(Case Report Form)
- Ethics Review Committee
- Adverse events( AE), (Severe Adverse Events)
- Pharmacogenomics
- Quality of life
- Patient follow ups

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**MODULE TITLE: ENVIRONMENTAL & QUALITY ANALYSIS**

**COURSE CODE: MKC/LS/03**

**Duration: 15days**

**COMPONENTS COVERED:**

**WATER ANALYSIS:**

➤ **CHEMICAL**

- pH
- Conductivity
- TDS( Total Dissolve Solids)
- Chlorides
- Sulphates
- Alkalinity
- Hardness
- Analysis of Na,K,Fe
- Residual Free Chlorine

• **PHYSICAL**

- Taste
- Odour
- Colour
- Turbidity

• **Microbiological**

- Aerobic Count
- Coliforms
- E.coli
- Sulphate Reducing Bacteria

**Food Analysis**

- Fat content
- Protein content
- Fibre content
- Acidity content

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- Energy content

#### Microbiological

- Pathogenic bacteria
- Non pathogenic bacteria

#### Minerals

- Fe content
- Silica content
- Calcium content
- Magnesium content
- Calcite
- Sodium sulphate
- Sodium and potassium mixtures
- Calcium Nitrates

#### Oil extraction

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