

# **Drug and Pollution Testing Laboratory (DPTL)**

## **About Drug and Pollution Testing Laboratory (DPTL)**

Drug and Pollution Testing Lab (DPTL), was set up for providing a very wide range of testing services independently. DPTL has the main objective of having a central facility in the Guru Nanak Dev University Campus to carry out high end testing, consultancy & research. In addition to research programs, it was envisaged to have state of the art testing & characterization facility to cater to the high end testing needs of the industrial organization as well as educational institutes of the region. The Government of India is strongly committed to improving the quality and safety of drugs and control of pollution in the country. A number of initiatives have been taken in last few years to improve the capacity of testing laboratories and to upgrade systems and procedures. With the increasing pace of industrialization, the need for continuous monitoring of pollution due to industrial sources has become significant. Industries are required to provide pollution control measures to meet the standards prescribed by Government. At present, DPTL Labs is mainly involved in drug testing and environmental pollution monitoring of different industries and environmental samples in addition to consultancy in the area of environment pollution and drug product development.

**Testing Charges:** See Annexure I, II, III

**Facilities Available:** AAS, UV-VIS Spectrophotometer, Ion Analysers, GC-MS, LC-MS, Conductometer, Turbiditymeter, pH meter, etc.

**Analysis of Drugs:** Analysis of the following drugs using sophisticated instruments:

Adrenaline, Aciclovir, Ampicillin, Albendazole, Amikacin, Aspirin, Allopurinol, Atenolol, caffeine, Calamine, Clotrimazole, Cefadroxil, Ciprofloxacin, Dexamethasone, Dextrose, Diclofenac Sodium, Diazepam, Econazole, Erythromycin, Fenbendazole, Fluconazole, Folic Acid, Gelatin, Gentamycin, Sulphate, Hydrocortisone, Ibuprofen, Ketamine, Ketoconazole, Lactic Acid, Lactose, Levodopa, Lorazepam, Metformin HCl, Mefenamic Acid, Metoprolol, Methotrexate, Metronidazole, Miconazole, Neomycin, Nicotinamide, Norfloxacin, etc.

## **Analysis of Chemicals**

Acids, bases, aldehydes, hydrogen peroxide, alcohols, phenols, sodium chloride, primary & secondary amines, ketones, copper sulphate, zinc sulphate, zinc oxide and other salts used as raw materials, density, specific gravity, viscosity, flash point, melting point, boiling point, moisture content, ash content, etc.

## **Analysis of Water Samples**

Ground water, drinking water, irrigation water, boiler water, influents, effluents, etc for pH, colour, odour, turbidity, temperature, dissolved oxygen, TDS, TSS, hardness, calcium, magnesium, sodium, potassium, chlorides, nitrates, sulphates, sulphides, sulphites, carbonates, bicarbonates, iron, fluoride, p-alkalinity, m- alkalinity, acidity, iodide, residual chlorine, chlorine demand, silica, phenols, detergents, lignin, oil & grease, BOD, COD, TOC, Fish Bioassay, etc.

## **Analysis of Environmental Samples**

Waste water, soil, sludge, etc for colour, odour, pH, BOD, COD, TDS, TSS, acidity, alkalinity, chloride, fluoride, sulphate, nitrates, iron, carbonates, bicarbonates, oil & grease, anion, cations, heavy metals, etc.

## **Consultancy Services**

Product development

Process development

## **Short Term Courses**

Short Term training program on 'Environmental Analytical Techniques' will cover the following aspects

- 1. Water and Waste water analysis**
- 2. Air Monitoring and Analysis**
- 3. Instrumental Methods of Analysis like AAS, UV-VIS spectrophotometer, Ion Analyzer, GC etc.**

**Course Duration :**Each course will be of 10 days and will be run one after another, but only on the specific dates, as follows:

<b>Water &amp; Waste Water</b>	<b>Air Monitoring &amp; Analysis</b>	<b>Instrumental Method of Analysis</b>
16 July to 26 July, 2019.	30 Jul to 09 Aug, 2019.	13 Aug to 23 Aug, 2019.
27 Aug to 06 Sep, 2019.	10 Sep to 20 Sep, 2019.	24 Sep to 04 Oct, 2019.
08 Oct to 18 Oct, 2019.	22 Oct to 01 Nov, 2019.	05 Nov to 15 Nov, 2019.
19 Nov to 29 Nov, 2019.	03 Dec to 13 Dec, 2019.	17 Dec to 27 Dec, 2019.
14 Jan to 24 Jan, 2020.	28 Jan to 07 Feb, 2020.	11 Feb to 21 Feb, 2020.
25 Feb to 06 Mar, 2020.	10 Mar to 20 Mar, 2020.	24 Mar to 03 Apr, 2020.
07 Apr to 17 Apr, 2020.	21 Apr to 01 may, 2020.	05 May to 15 May, 2020.
19 May to 29 May, 2020.		

## TARGET

- Analyst/ Staff working in any Industry,/Academia/Govt organization etc.
- Students who are enrolled in any UG/PG Programmes and faculty members can take this course during summer/winter holidays when it is offered.
- The candidates would be selected on first cum first serve basis. Referral letter from the concerned industry/ organization is must.
- For category (a), NOC from concerned HOD/Dean/Director,etc is necessary.

## PROGRAM FEE

- A demand draft of Rs.10000/- in favor of the Registrar, Guru Nanak Dev University, Amritsar payable at Amritsar has to be attached with the Registration Form.
- Course fee includes only program fee and course material (CD).

## LODGING AND BOARDING

- On the request of the participants, DPTL can make lodging and boarding arrangements in the Guru Nanak Dev University on payment basis.

## NO. OF PARTICIPANTS

- Minimum of 10 participants.

## CERTIFICATE

- On the successful completion of the course Certificate of Participation shall be given by the University.

## CONTACT US

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