



Training Brochure 2011



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TGA-ZM-02-06-00

Pharmaceutical Sciences & Quality Control



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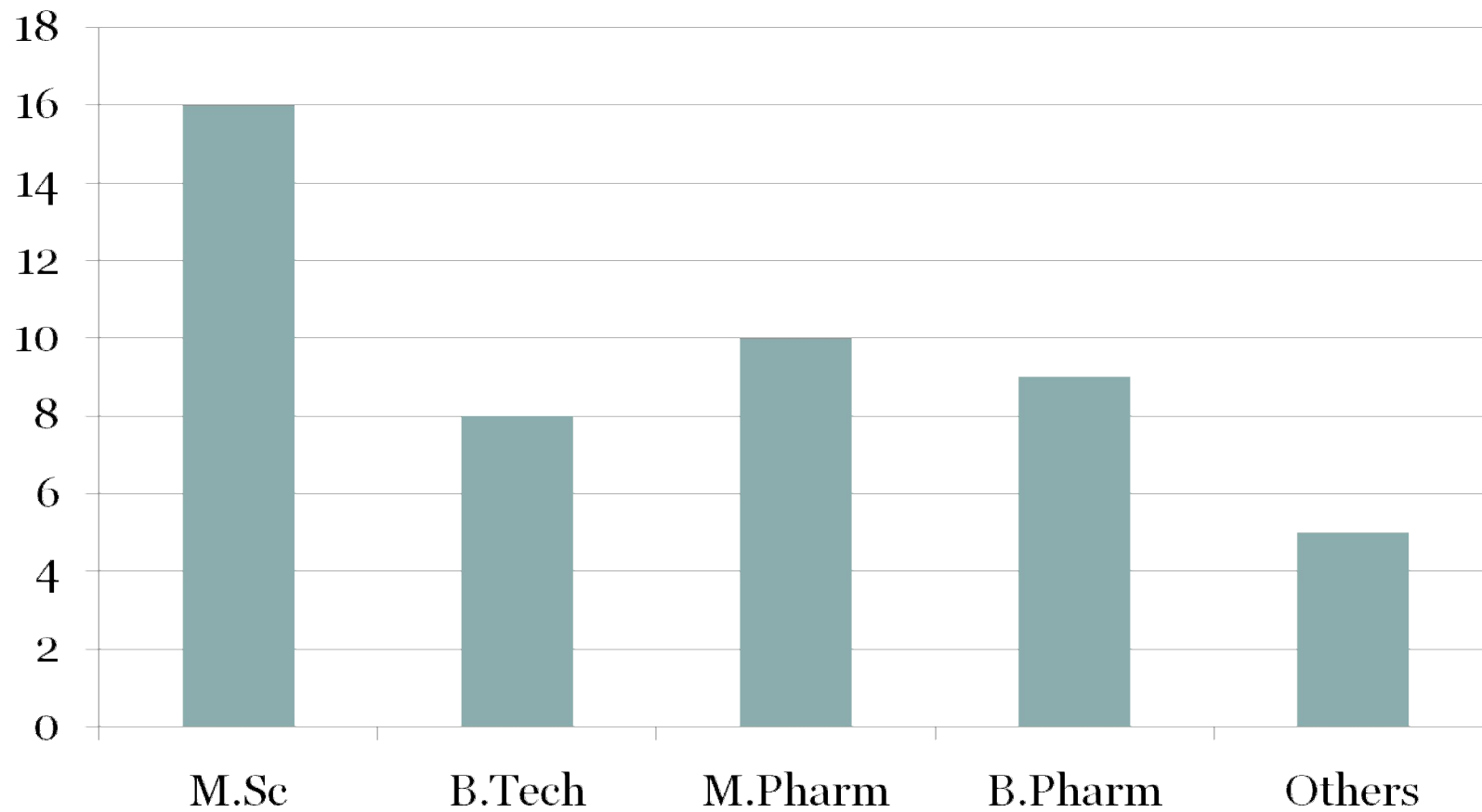
TGA-ZM-02-06-00

Features of Training Programs

- In the current year one of the most successful training program
- Coverage of major areas of Life Science
- Individual participation in more than 200 Experiments
- Participation in our services , product development and manufacturing
- Multidisciplinary approach enhance the chances of employment
- Training at the cost of NO PROFIT NO LOSS BASIS
- It is mandatory to participate in company production , research and services
- Fill the gap between academia and Industry



No. Of Trainees





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Module I : Pharmaceutical Microbiology

- Identification of Endotoxin Test - Strategies for detecting interference; validation of special treatments to overcome interference and validation of the test for endotoxins by performing the Pharmacopeial Test for Interfering Factors.
- MIC Test
- Testing of antibiotics
- Sterility testing of injectables
- Bioassay of Vitamins

Module II : Pharmaceutical Chemistry

- Drug characterization
- Drug quality testing for purity
- Drug quality testing for assays
- Drug quality testing for manufacturing impurities
- Drug quality testing for purity degradation products
- Drug quality testing for existence of polymorphs
- Stability testing

Total Number of Practical in this module : 30



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Module III : Drug Analytical Techniques

Introduction to Chromatography Techniques :

- High Performance Liquid Chromatography (HPLC)
- Gas Chromatography
- Gel Filtration Chromatography
- Ion Exchange Chromatography
- Affinity Chromatography
- Thin Layer Chromatography

Spectrophotometric & HPLC Methods Of Analysis For Drugs in combination

- Simultaneous equation method
- Derivative Spectrophotometric method
- Absorbance ratio method (Q-Absorbance method)
- Difference spectrophotometry
- Solvent extraction method
- Hplc Methods Of Analysis For Drugs In Combination
- Method Development
- Quantitative Analysis In HPLC

Total Number of Practical in this module : 30

Module IV : HPLC Analytical Techniques

Introduction to HPLC

HPLC Troubleshooting & Maintenance

HPLC Method Development

- Defining the resolution, run time, specificity, accuracy, precision, limit of detection, etc
- Identification of key variables for retention, selectivity, and efficiency
- Column selection & handling
- Sample concentration, injection solvent, injection solvents
- Reverse phase HPLC
- HPLC Solvent Selection
- Validation of HPLC Methods
- HPLC Solvent Selection

Separation of Biopharmaceuticals through HPLC

- Column and mobile phase selection for reversed-phase chromatography
- Sample Preparation
- Column selection
- Run HPLC
- Peak Identification
- Analysis

Module V : GC Analytical Techniques

Introduction to GC

GC Troubleshooting & Maintenance

GC Method Development

- Establishing Method Objectives
- Mechanisms of Separation
- Sample Preparation Protocols
- Column Selection
- Detector System Choice / Operation
- Optimization of Chromatographic Parameters
- Capacity Factor (k), Efficiency (N), Selectivity (α) and Resolution (R)
- Temperature Effects
- Appropriate Methods of Quantitation

Separation of Biopharmaceuticals through GC

- Sample Preparation
- Column selection
- Run GC
- Peak Identification
- Analysis



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Module VII : Pharmaceutical Biotechnology

General Molecular Biology :

- Isolation & Purification of Nucleic Acids from Various Sources
- Qualitative & Quantitative Analysis through Gel Analysis Software and Spectrophotometer
- Amplification of nucleic acids through PCR
- Electrophoresis of PCR Products
- Isolation of m RNA
- c DNA Synthesis

PCR & Optimization :

- Method Development for PCR
- Reverse Transcriptase PCR
- Amplification of RNA
- Clinical Application of PCR
- Purification of PCR Products
- Amplification of c DNA

Protein Study :

- SDS – PAGE
- Western Blotting
- 2 D Gel Electrophoresis

Total Number of Practical in this module : 30



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Module VII : Pharmaceuticals & Quality Control

Analysis of Inorganic Salts in Formulations : Quantitative & Qualitative analysis of inorganic salts through Flame Photometry • Quantitative & Qualitative analysis of inorganic salts through Ion Selective (ISE) • Quantitative & Qualitative analysis of inorganic salts through Spectrophotometer

Moisture Content Analysis in Formulations

End Point Detection of Chloroquine Phosphate , Estyle Salicylate etc.

Nitrogen Estimation

To perform assay of different Pharma Formulations

Total Fat , carbohydrates & Protein Estimations

Module IX : Immuno Techniques

- Immuno Electrophoresis
- ELISA
- Immuno affinity chromatography

Total Number of Practical in this module : 30



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Module X : Quality Control Laboratory Procedures

- Calibration Policies for Laboratory Instruments
- Laboratory Workbook
- GMP Standard of manufacturing
- GMP Quality Guidance
- GMP Validation Procedures
- GMP Audit
- GLP Standard
- GLP Validation Standards

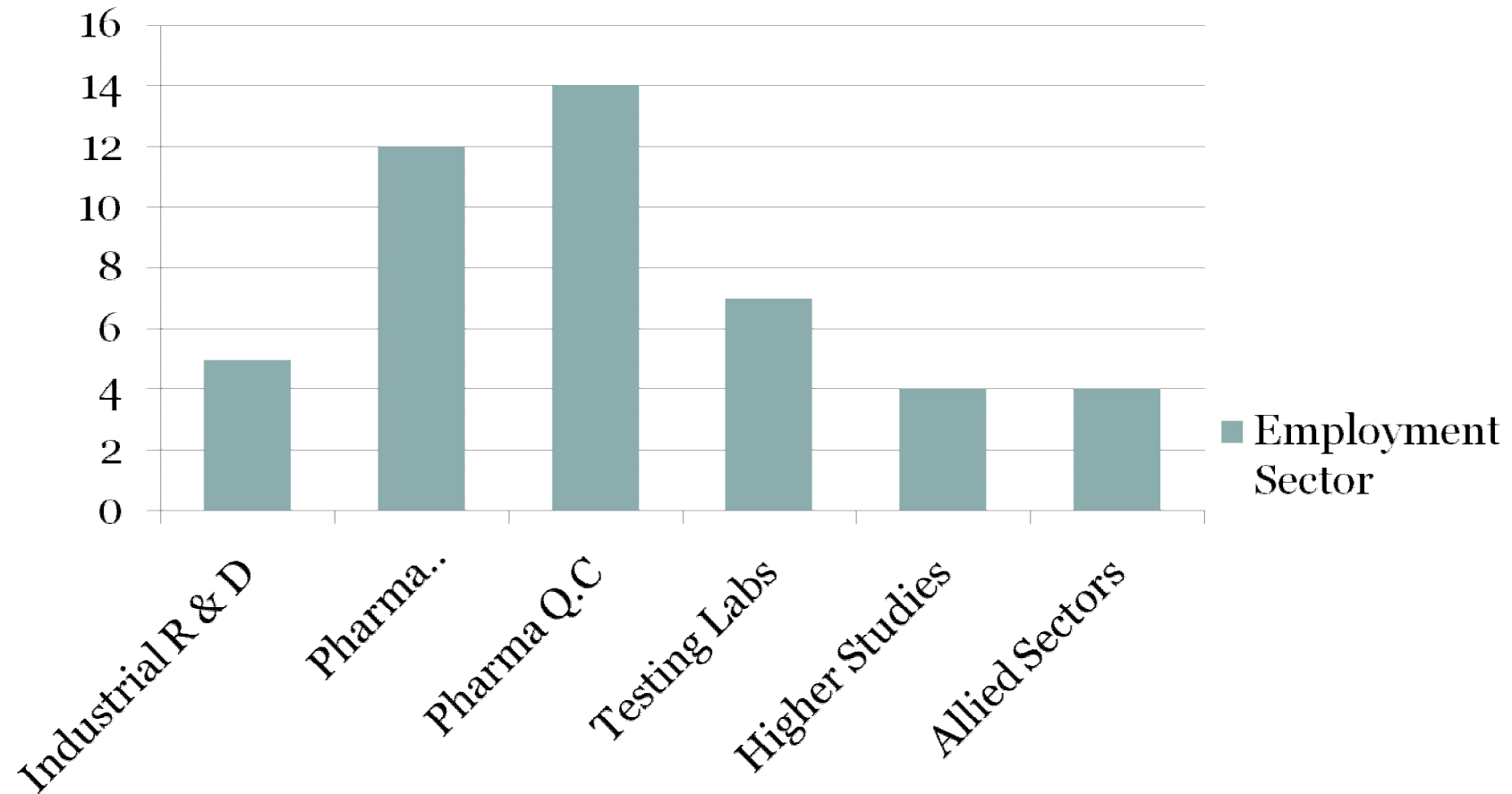
Module XI : Project Work (Trainee will work on a project along with this module)

Duration: Six Months

Eligibility: Masters / Bachelors of Life Science or Pharmacy Stream (Studying or Pass out)

Fee: Rs 35,000/-

Employment





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