

## **Post Graduate Diploma in “Applied Quantitative Research Techniques”**

### **Hand Book**

#### **About PGD**

Postgraduate Diploma is comprised 20 weeks (144 teaching hours), covering four (04) courses, QRT-Basic (Essential Statistics for Business and Economic Research), QRT-One (Quantitative Research Techniques for Business and Management), QRT-Two (Modeling Economic and Financial Time Series) and QRT-Three (Modeling International Trade).

**QRT-Basic** is a compulsory course in order to get complete understanding to proceed towards other courses. It designed to provide an excellent opportunity to the participants to know the validity and volatility of the early indicators offered by statistical offices to monitor the business cycle and to foster evidence based decisions of governments and enterprises. As for quantitative research it is imperative to know the preconditions, the limitations, the concepts and methods as well as the international standards to produce the official statistics such as National Accounts, Balance of Payments, Price Indices, Government Finance Statistics or monetary statistics.

In **QRT-One**, SPSS (Statistical Package for the Social Sciences) will be used as Quantitative Research Tool. This course will include the concepts of report generation, descriptive statistics, measures of mean differences, measures of association and regression analysis, factor analysis, reliability analysis, nonparametric tests and structural equation modeling.

**QRT-Two** is composed of Time Series Data Analysis using Eviews software. It will cover the selected contents of time series robustness, assumptions and verification of time series validity through ADF test and DW test, modeling volatility by incorporating ARCH, GARCH, EGARCH, TARCH and TGARCH models on trade and macro economic data, multi-equation time series analysis and long & short term relationships of time series through applications of OLS, GLS, Co integration, Granger Bi-Causality and Error Correction method.

**QRT-Three** will offer Quantitative Research Techniques for Trade and International Finance. It will be very focused and advanced certificate course, covering all methodological issues in domestic and international commerce. Specifically, this certification will cover the quantification of commercial policies, application of social accounting matrices, trade-focused general equilibrium models, multi-region trade modeling, scale economies and imperfect competition, capital accumulation in trade models and trade wars, negotiations and applied game theory.

PGD is composed to develop and enhance the tailored techniques urgently required for research work and a comprehensive set of tools for future research related to commercial policy, sciences.

## Admission Procedure

Selection will be made on the basis of entry test only (after qualifying the eligibility criteria mentioned in the advertisement). The chronology of admission will be:

- Candidates seeking admissions to PGD must have a Master Degree in Economics/ Business Administration/ Social Sciences/ Statistics from HEC recognized universities.
- Candidates seeking admission to PGD must have to pass the entry level test, organized by PSET.
- Applications on the prescribed form shall be made to the Program Manager on or before the last date advertised in the newspapers, after which no application shall be entertained.
- The merit list will be determined by the Entry test
- On the recommendations of the Admission Committee, the Director General PITAD will approve the names of the candidates selected for admission.
- A candidate's admission will be confirmed after he has deposited the fee/s for the course/s.
- Admission of any student is liable to be cancelled if his academic progress or conduct at any stage is found unsatisfactory.

## Entry Test

An entry test will be conducted in order to assess the level of knowledge of the candidates regarding economics, econometrics, statistics and mathematics. The candidates scoring 75% and above will be qualified for admission in PGD.

## Fee Structure

Admission Fee for complete Postgraduate Diploma is Rs 50,000/- (once, at the time of admission) plus security fee of Rs 5000/- (refundable). The fee of each individual course is Rs.15, 000/- (Once, at the time of admission). The detailed fee structure is as following:

Courses	Fee (in Rs)
<b>Quantitative Research Techniques- Basics (Compulsory Course)</b> Essential Statistics for Business and Management Research	15000/-
<b>Quantitative Research Techniques-One</b> Quantitative Research Techniques for Business and Management	15000/-
<b>Quantitative Research Techniques-Two</b> Modeling Economic and Financial Time Series	15000/-
<b>Quantitative Research Techniques-Three</b> Modeling International Trade	15000/-
<b>Complete Postgraduate Diploma</b>	50000/-

In case of more than one nominations from the institutions/organizations for their employees , the total fee will be charged as Rs 40,000/- per head.

### **Mode of Payment**

- All payments will be made through Bank Draft/Pay Order in favor of “Pakistan Institute of Trade and Development, Islamabad”.
- Fee for each course must be submitted at least one week prior its start.

### **Class Timings**

Classes of PGD will commence from 15<sup>th</sup> Feb, 2010. Classes will be held twice/thrice a week with the timings 3:30 pm to 6:30 pm.

### **Attendance**

- All the participants are required to maintain a minimum of 80% attendance throughout PGD duration. Maximum 3 absences are allowed. Late coming for two times will be considered as 1 absence. No diploma/ certificate would be awarded in case of non-compliance.
- Admission will stand cancelled if a participant is absent for consecutive two times without prior permission/ information from/to programme coordinator.
- Special requests (medical certificate) for leave/s must be made in advance to the programme coordinator and approved.

### **Withdrawal from the Programme**

- In case of withdrawal from the course/ programme, written application will be submitted to the program coordinator.
- In case the participant has attended any class, only security deposit will be refunded.
- If the participant has not attended any class then the Rs 5000/- will be deducted from the course fee and refunded along with the security deposit.

## Evaluation Criteria

- Keeping in mind the learning importance of the programme, every participant will be evaluated during and after the specific course in order to assess his/her learning level. The participant/s failing to achieve 60% in a particular course will not be entitled for the next course.
- Evaluation will be a combination of written, practicals or MCQs.
- General evaluation distribution for each course is :

<b>Final (at the end of each course)</b>	50
<b>Assignments</b>	15
<b>Quizzes (MCQ's)</b>	10
<b>Practical Work</b>	15
<b>Attendance :</b>	10
<b>Total</b>	<b>100</b>
<b>Grand Total (100*4)</b>	<b>400</b>

- Misconduct during evaluation processes will not be tolerated.

## Award of Diploma/Certificate, Scholarship

- Diploma will be awarded to those participants who will be able to successfully complete all of the four courses (with 60%). In case of attending one or two courses, the participant/s (getting 60%) will be awarded with the certificate of that/those particular course/s.
- Participant/s (up to 2) with top position will be given scholarship by waving off 50% of the next course fee.

## Admission Committee & Examination Committee

### **Admission committee:**

- 1) Dr .Sohail Safder, Director General, PITAD (head)
- 2) Dr. Yasir Kamal, Director, PSET (member)
- 3) Dr. Sajjad Akhter, Director Research, PITAD (member)
- 4) Mrs. Dur-e-Shahwar Sadozai, Joint Director, PSET (member)



## Examination Committee

- 1) Dr .Sohail Safder, Director General, PITAD (head)
- 2) Dr. Yasir Kamal, Director, PSET (member)
- 3) Dr. Sajjad Akhter, Director Research, PITAD (member)
- 4) Dr. Etzaz Ahmed, QAU, (member)
- 5) Dr. Vaqar Ahmed, Planning Commission of Pakistan (member)
- 6) Dr. Waseem Shahid, , QAU, (member)
- 7) Mr. Bernd Struck, Consultant (FBS)
- 8) Mrs. Dur-e-Shahwar Sadozai, Joint Director, PSET (member)

## Location

PSET, Pakistan Institute of Trade and Development

State Life Building No.7, Jinnah Avenue, Islamabad

[www.pitad.org.pk](http://www.pitad.org.pk)

Contact No 051-9206853,