



**SURVEY OF PAKISTAN
SURVEY TRAINING INSTITUTE
H-8/2, ISLAMABAD**

ADMISSION FORM

For

ADVANCE COURSE IN LAND SURVEYING TECHNOLOGIES

(06 weeks)

(Form Processing Fee Rs. 200/-)

Select the Course Duration: (1) w.e.f 15th Feb to 31st Mar.
(2) w.e.f 15th Aug. to 30th Sep.

Name: _____

Father's Name: _____

Date of Birth: _____ Religion _____

Gender: Male Female Domicile: _____ CNIC No. _____

Postal Address: _____

Permanent Address: _____

Phone No: _____ Mobile No: _____

QUALIFICATION

Certificate / Degree	Main Subjects	Year of Passing	Board / University	Marks Obt.	Total Marks	Div	%age
SSC							
HSSC							
Bachelors							
Masters							
Any Other							

Previous experience (if any): _____

Current employment (if any): _____

AFFIDAVIT

I solemnly declare that all the entries made in this admission form are correct to the best of my knowledge and belief. During the training period, I shall abide by the rules/regulations made and notified by the Survey Training Institute from time to time.

Date: _____

Signature of Candidate: _____

FOR OFFICE USE ONLY

Scrutiny Remarks: _____

Admission: Recommended Not Recommended

Course No: _____

Registration No: _____

CHIEF INSTRUCTOR

FEE STRUCTURE

Admission Fee: Rs. 1000

Tuition Fee: Rs. 12000

Other Charges: Rs. 7200

Security Refundable: Rs. 2000

Hostel Charges (Limited space available in hostel):

Room Charges: Rs. 20 per day

Hostel Security: Rs. 1000 (refundable)

COURSE CONTENTS

a. Theory

i.	Introduction to Global Positioning System/GNSS
ii.	Components / Segments of Global Positioning System/GNSS
iii.	Some Basic Terminologies used in GPS Survey
iv.	Various Types of GPS Receivers
v.	GPS/GNSS Survey Techniques
vi.	GPS/GNSS Survey Planning
vii.	Main Steps involved in a GPS/GNSS Project
viii.	Sources of Error
ix.	DOP (Dilution of Precision)

x.	Improving Accuracy through Advanced forms of GPS/GNSS (Differential GPS)
xi.	GPS Network Design
xii.	Coordinate systems
xiii.	GPS/GNSS Applications/Uses.
xiv.	GPS/GNSS Survey Vs Conventional Survey
xv.	Introduction to Total Station
xvi.	Instrument 's checking and Calibration
xvii.	Set up and Orientation of Total Station
xviii.	Phases of Total Station Survey
xix.	Measurements with Total Station
xx.	Topographic Survey using Total Station

b. Practical

(i) (GNSS/GPS)

- a) Introduction to GPS Software
- b) GPS-Mission Planning
- c) Reconnaissance of Area and Establishment of GPS Stations
- d) Introduction to GPS Instrument
- e) Components of the Instrument
- f) Reference Receiver
- g) Rover Receiver
- h) Setting up the instrument properly
- i) Proper operation of the instrument
- j) Dealing Jobs
- k) Configuring the GPS instrument
- l) Selecting various options and Input data
- m) GPS-Observation
- n) GPS-Baselines Processing
- o) GPS-Data Adjustment
- p) Adjustment of Data with reference to 'A' or 'AB' order Network
- q) Detection of Blunders and Improvement of Accuracy Standards
- r) Comparison of GPS Coordinates with Local Everest coordinates
- s) Transformation Parameters
- t) Conversion of Coordinates from WGS-84 to Everest and Vice Versa
- u) Submission of Final Results and Reports

(ii-A) (Total Station)

- a. Introduction to Total Station Instrument
- b. Setting Up the Total Station
- c. Configuration of instrument
- d. Orientation of Total Station
- e. Angle And Distance Measurement
- f. Coordinate Measurement
- g. Establishment of Control Stations
- h. Topographic data collection and Recording
- i. As Built Survey
- j. Remote Elevation Measurement
- k. Missing Line Measurement
- l. Offset Measurement
- m. Setting Out/Construction layout
 - i. Set Out Centerline
 - ii. Subdivision Design and Layout
- n. Resection Measurement
- o. Area Calculation

(ii-B) Data Downloading and Processing

- a. Introduction to Downloading and Processing software
- b. Downloading a Raw data from Total Station Instrument
- c. Converting a Raw File to a Field File
- d. Creating the Map File/Symbol Library
- e. Reduction of Field file using the map file
- f. Generating TIN
- g. Editing Point/ Target Height
- h. Editing TIN
- i. Creating Contours
- j. Contour Labels
- k. Editing erroneous Coding
- l. Plotting
 - i. Feature Labeling
 - ii. Setting Plot Scale
 - iii. Adding Text
 - iv. Creating Legend

- m. Data Exchange
 - i. Data export to CAD software
 - ii. Editing in CAD software
 - iii. Out put Map Sheet
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REQUIRED DOCUMENTS

Following documents must be attached with the admission form

- a. Attested photocopies of certificates / degrees
- b. Attested photocopy of CNIC
- c. 02 passport size photographs attested from back side

TERMS & CONDITIONS

Students / trainees are expected to observe the following rules:

1. At least 90% attendance is obligatory in theory as well as in practical
2. Maintaining discipline in class room, labs and in field area.
3. Labs are equipped with sophisticated equipment therefore students are advised to be careful while working in labs/field area. In case of any problem the course In-charge should be contacted.
4. Student will be responsible for any damage of instrument or property of the Institute.
5. This course is offered on cost recovery basis, therefor there is no provision of fee waiving or remission of any type.
6. Classes are organized from 9:00 AM to 5:00 PM as per government working hours.
7. In case of poor attendance, unsatisfactory performance, poor conduct or violation or rules and regulations, the Institute management reserves right to expel such students from the course.
8. The applicants are directed to submit their admission forms at Survey Training Institute, Survey of Pakistan, H-8-2, Islamabad along with Original Bank Deposit Slip (available on SoP website.
9. The applicant will also be required to pay Rs. 200/- as form processing fee (in Cash) at the time of form submission.

CONTACT US:

1. **Survey Training Institute**, Faiz Ahmed Faiz Road, H-8/2, Islamabad
Phone: 051-9250670
2. **Directorate of Northern Circle**, Shami Road, Opposite CFC, Peshawar Cantt.
Phone: 091-9212833

3. **Directorate of Eastern Circle**, Saad Arcade, Main Boulevard, Defence, Lahore Cantt.
Phone: 042-99220377
4. **Directorate of Southern Circle**, 38PNH lines, 22nd Central Street, DHA Phase-II,
Karachi (South). Phone: 021-99266381
5. **Directorate of Western Circle**, near old Bolan Medical College (BMC), Brewery Road,
Quetta. Phone: 081-9213365
6. **Website: <http://www.surveyofpakistan.gov.pk>**

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ADMISSION FORM RECEIPT

Name of Applicant: _____

Father's Name: _____

CNIC No: _____

Form Processing Fee: _____ Date of submission: _____

SIGNATURE & STAMP



Survey Training Institute (STI)

GOVERNMENT OF PAKISTAN
SURVEY OF PAKISTAN, MINISTRY OF DEFENCE

Branch Name: _____

Branch Code : _____ Date: _____

ONLINE DEPOSITE SLIP (* Please deposit fee in any NBP online Branch)

Bank Copy

Remote Branch: NBP, H-9 Industrial Area, Islamabad A/C Title: DDO Directorate of Survey Training Institute, Islamabad



NATIONAL BANK OF PAKISTAN
A/C No. 4151735634 Branch Code (1531)
(Note: Desired Bank Stamp is required on the Deposit Slip)
(Note : No Bank Charges)

Applicant's Name:	
Father's Name:	
Nominating Department (If Any):	
CNIC No/ B Form No:	
Course Applied For: ADVANCE COURSE IN LAND SURVEYING TECHNOLOGIES (06 WEEKS)	
Course Fee Rs: 22,200/-	Amount in words: Twenty Two Thousand Two Hundred Only (Non Refundable/ Non Transferable)

Depositor's Signature

Cashier

Officer

The receipt of cash/cheque/instrument by the bank evidenced through this deposit slip will be valid only when this deposit slip has been signed and stamped by an authorized officer of the Bank.



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SURVEY OF PAKISTAN, MINISTRY OF DEFENCE

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SURVEY OF PAKISTAN, MINISTRY OF DEFENCE

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