

NATIONAL TRANSPORT RESEARCH CENTRE

\* \* \* \*

374.0124  
NAE  
1987  
07552

REPORT ON  
NINTH PLANNING COMMISSION COURSE  
ON  
TRANSPORTATION PROJECTS PLANNING  
( November-December, 1987)

NTRC- 109

NAÉEM ULLAH,  
ASSISTANT CHIEF,  
COURSE ORGANIZER.

December, 1987

## CONTENTS

<u>S.No.</u>		<u>Page No.</u>
1.	Background and Introduction ✓	1
2.	Nominations	2
3.	Course Description and Nature ✓	3
4.	Participants ✓	4
5.	Course Schedule	4
6.	Venue	4
7.	Timings	5
8.	Speakers ✓	5
9.	Course Material	5
10.	Social Functions	6
11.	Field Visits ✓	6
12.	Course Evaluation	7
13.	Documentation	7
14.	Budget	7
15.	List of Fellows	7
16.	Acknowledgement	8

## ANNEXURES

<u>S.No.</u>		<u>Page No.</u>
a)	Course Announcement, Nomination and Application Forms (Annexure-I,II,III&IV)	9-17
b)	List of Agencies (Annexure-V)	18
c)	List of Nominated Candidates (Annexure-VI)	29
d)	List of Participants who attended the Course (Annexure-VII)	31
e)	Course Schedule (Annexure-VIII)	33
f)	List of Speakers (Annexure-IX)	34
g)	Details of Course Material Distributed among the course participants (Annexure-X)	38
h)	Social Functions (Annexure-XI)	41
i)	Field Visits (Annexure-XII)	43
j)	Specimen forms used for "Course Evaluation" (Annexure-XIII)	45
k)	Details of Expenditure (Annexure-XIV)	55
l)	List of Fellows (Annexure-XV)	57

1. BACKGROUND AND INTRODUCTION:

( Among the infrastructures which should precede any developmental planning in a developing country, the laying of well planned network of its communication system providing an easy flow to its transportation needs should as a matter of principle receive the highest priority. A major problem which however affects the developing countries is the insufficient attention accorded to the proper planning of developing its transport sector, inadequate planning in this particular field has had significant impact on the rest of the multifarious developmental activities in one way or the other, often time adding up to their costs, besides retarding their rate of progress.

Recognizing the deficiencies in the project planning capabilities in the field of transport, a series of four Transport Project Planning Courses were organized by the Planning Commission with the assistance of Economic Development Institute of World Bank from 1976 to 1979. These courses had a very positive effect on the quality of project preparation and appraisal.

Due to some unavoidable circumstances, the courses could not be continued after 1979. In 1983, after a laps of 4 years, it was decided to reactivate this programme. However by that time Economic Development Institute was no longer able to extend any material help, and as a result the Fifth, Sixth, Seventh, Eighth and Ninth Courses were organized entirely with own resources. The Ninth Course was organized at Regional level) and the future Transportation Courses are open to the OIC/SAARC Member countries.

The 9th Course was held from 23rd November, 1987 to 31st December, 1987. The Course was formally inaugurated by the Secretary, Planning and Development on 23rd November, 1987. In his address the Secretary emphasised the point that the most important element in the improvement of the country's transportation system was the proper identification, selection, planning, designing and implementation of individual projects. He stressed that in his view there was a special need to promote proper expertise among our Engineers and Planners for identification, Planning, design and execution of projects. He also pointed out the necessity of taking into account all technically feasible selections preparing cost estimates for each, and selecting the one which was more cost effective. He stressed that this was especially necessary in a country with limited resources as ours.

He concluded that a multiple choice involves hard-work, sharpens the planning process and also provides new thoughts and helps in taking a more rational decision.

2. NOMINATIONS:

The Course announcement, nomination/application forms (Annex-I,II,III & IV) were sent to various Department/Agencies/Concerned persons at National/Regional level as per list given in Annexure-V. Agencies were asked to nominate their candidates only if they were fully qualified both by their previous training and experience and by the relevance of their jobs with their intended training. The Announcement/application forms to regional member countries and at National level were sent by 4th July, 1987

and 31st July, 1987 respectively. However the announcement/ application forms to regional countries were sent through Ministry of Foreign Affairs of Pakistan.

The closing date for receipt of nominations was 31st August, 1987. By due dates 31 nominations from 27 different agencies were received (Annex-VI). Out of 31 nominations only 13 participants could attend the Course. Particulars of the participants and their respective organizations may be seen at Annexure-VII.

3. COURSE DESCRIPTION AND NATURE:

The main objective of the course was to assist the various agencies concerned with transport to improve the quality of planning and operations of the various transport modes so that such sector would make a substantial contribution to the achievements of national development goals.

The course was designed for officers who held important posts in fields related to transportation. The participants of the course were supposed to make important decisions in their respective fields. To make extensive use of the course the Centre was to choose such topic that would improve the general standard of planning, design, construction and maintenance of transport projects. This objective was met by selecting the topics that covered all modes of transport. However, the concentration was on road projects which remain par excellence of all other modes.

The course introduced the participants to the techniques of Cost-Benefit Analysis through various work exercises and practical case studies pertaining to investments in roads, road

transport, railways, inland water-ways, ports, shipping and civil institutional and management aspects of transport planning. This included project execution economic and financial analysis for non-specialists; and technological trend in transport, etc.

4. PARTICIPANTS:

All the participants who attended the course held responsible positions in their respective departments such as Pakistan International Airlines, Pakistan National Shipping Corporation, Quetta Development Authority, Karachi Development Authority, Engineer-in-Chief's Branch G.H.Q., Secretariat of Communication Maritime Transport (Libya), Ministry of Communication (Oman), General Transport Corporation (Yemen), Civil Aviation (Iran) and Land Transport Office (Bhutan). The list may be seen at Annexure-VII.

5. COURSE SCHEDULE:

The course schedule was planned for four weeks and four days of lectures followed by 8 days of field visits to Lahore and Karachi. A copy of the course schedule may be seen at Annexure-VIII.

6. VENUE:

The course was held at the National Transport Research Centre, Islamabad. The Lectures were held in the lecture hall of National Transport Research Centre where special arrangements were made for the Course.

7. TIMINGS:

The Course had three lecture sessions of two hours each on all working days commencing from 0830 hours and finishing at 1630 hours with break for lunch and Zohr prayers.

8. SPEAKERS

The course covered 67 lectures related to various topics of transportation projects e.g. on roads, road transport, Railways, Ports, Aviation & Highway Safety etc. These lectures were delivered by 26 speakers. NTRC, as usual has been quite selective about the persons who deliver these lectures in their own specialised fields. The 26 speakers including one foreign experts have been well reputed both for their qualifications and experience and holding high positions in their respective fields, some of them being the head of their own departments. As we could see the candidates benefited a great deal from the enlightened view put forth before them by the guest speakers as well as the Centre's own experts.

A list of speakers alongwith the topics they covered is shown at Annexure-IX.

9. COURSE MATERIAL:

The course material was provided by the National Transport Research Centre in addition to the hand outs arranged by the guest speakers. In this context the various studies carried out by the National Transport Research Centre proved specifically to be of significant value in the identification and better understanding of the problems. A list of NTRC's publication was kept in the lecture hall during



the course. Several publications were distributed among the participants. A list of the material prepared and distributed among the course participants may be seen at Annexure - X.

10. SOCIAL FUNCTIONS:

A number of social functions were arranged for the course participants. The two fold purpose of such function is to provide some recreation to the participants and to establish a better rapport among them. These functions helped them in getting an opportunity to discuss the topics related to the course in an informal manner. The functions, of course, proved to be helpful in achieving the objectives of the course. The details of social functions may be seen at Annexure - XI.

11. FIELD VISITS:

This centre had been organizing some field visits at the end of each course. In the previous courses NTRC had arranged for one week field visits but the participants of these courses had suggested a period of more than one week for field visits. Therefore, in the light of past experience/a number of field visits were arranged in order to acquaint the participants (i) with the working of the various types of organizations related to transportation (ii) give them a chance to come in contact with those persons who are at the helm of affairs in such organizations so that they are in a position to enter into a frank discussion and familiarize themselves with the type of situation and problems that have to be encountered at field levels (iii) in the development of real insight into the actual working of these departments.

Such get together programmes to a great extent help in the development of congenial atmosphere so essential to achieve better understanding and coordination, specially in the overall planning system. A list of field visits may be seen at Annexure-

12. COURSE EVALUATION:

Regular evaluation on weekly basis in respect of every lecture was carried out to keep abreast with the shortcomings which could be rectified immediately. A set of specimen forms used for this purpose may be seen at Annexure-XIII.

13. DOCUMENTATION:

A complete set of the course material that was used for the course and distributed among the course participants has been properly documented and placed in the Library of National Transport Research Centre for future reference.

14. BUDGET:

The details of the expenditure on the course amount to Rs. 173,945/= may be seen at Annexure-XIV.

15. LIST OF FELLOWS:

Including the 9th course, 198 candidates have so far been trained in Transportation Projects Planning. The list can be seen at Annexure-XV.

16.

ACKNOWLEDGEMENT:

National Transport Research Centre, Planning and Development Division would like to place on record the cooperation extended to it by the various agencies notably Road Research Institute (Lahore), Pakistan Railways Board, Punjab Road Transport Corporation, Pakistan International Airlines Corporation, P.A.C.O., Karachi Shipyard Engineering Works, Karachi Traffic Engineering Bureau, Port Qasim Authority and Karachi Port Trust.

GOVERNMENT OF PAKISTAN  
PLANNING COMMISSION  
NATIONAL TRANSPORT RESEARCH CENTRE

\* \* \* \* \*

Telephone: Islamabad 826282  
Ref. No: NTRC-15(22)/87.

Cable: PLANCOM  
ISLAMABAD

ANNOUNCEMENT OF

NINTH PLANNING COMMISSION COURSE ON TRANSPORTATION PROJECTS  
PLANNING 23RD NOVEMBER - 31ST DECEMBER, 1987

The Ninth Planning Commission Course on Transportation Projects Planning will be held at Islamabad from 23rd November - 31st December, 1987. Federal and Provincial Government Departments, Autonomous and Semi-Autonomous bodies and private consulting engineering firms which are actively associated in planning, design, construction and maintenance of transport facilities are invited to send nominations of suitable candidates for the course.

COURSE OBJECTIVES:

The objective of the course is to assist the various agencies concerned with transport to improve the quality of planning and operations of the various transport modes so that each sector will make a substantial contribution to the achievement of national development goals. In general terms, this objective will be served by improving the analytical and technical skills of the participants in project preparation, appraisal and implementation.

COURSE DESCRIPTION:

The course introduces participants to the technique of cost-benefit analysis through various work exercises and practical case studies pertaining to investments in roads, railways, inland water-ways, ports, shipping and civil aviation. Other topics to be covered include the institutional and management aspects of transport planning and project execution economic and financial analysis for non-specialists; and technological trends in transport, etc.

COURSE APPROACH:

Extensive use is made of case studies, work exercises and discussion workshops to supplement lectures by Planning Commission and other guest speakers. Participants are expected to take an active part in the course by membership on case study teams and by leading discussions. Extensive field visits are also arranged during the course so that the participants may have an actual feel of the real world situation.

REQUIREMENTS OF PARTICIPATION:

This course is designed for officials who hold responsible positions in fields related to transportation. They may have worked as economists, engineers or planners in Ministries of Planning, Finance, Transport and Public Works or in Operating agencies responsible for highways, railways, ports and other transport modes. In evaluating the nominations, the Admissions Committee will take into account the personal qualifications and experience of the applicants and the likelihood of their continued-working on problems related to the planning of transport and/or coordination of transport operations in the future.

The number of participants that can be accommodated in the course is limited to 25. It is expected that the Admissions Committee will have to make their selection from a considerably greater number of applicants. Therefore, candidates should be nominated only if they are fully qualified both by past training and experience and by the relevance of their present work. Participants are normally in the 30-45 years age range.

NOMINATION AND SELECTION OF CANDIDATES:

Nomination and Application for Admission forms accompany this announcement. One copy of this form may kindly be completed and signed by the candidate and the section titled "Nomination of Candidate" on the first page of the form may kindly be completed by an appropriate official of the agency making nomination. Each agency can nominate upto two candidates.

Completed forms may be returned to the CHIEF, National Transport Research Centre (NTRC), Planning Commission, Government of Pakistan, Block 4-B, Markaz F-7, Islamabad by 31st August, 1987

The Admission Committee will complete the selection of participants by 15th September, 1987 and nominating agencies will be notified of results as promptly as possible thereafter.

ADMINISTRATIVE AND FINANCIAL ARRANGEMENTS:

In making a nomination it is understood that the Sponsoring Agency agrees that the candidate will be treated on duty with his regular pay, travelling/daily allowances and total charges for the duration of the course; that participants will not be given assignments during the course which would prevent them from devoting their full time and attention to it; and that the candidate will be placed in his former position or in one of equal or greater responsibility on completion of the course. The candidate shall be paid in advance the entire amount of Travelling/ Daily Allowance and Hotel Charges to enable him to make necessary arrangements for boarding and lodging. Planning Commission would be glad to help arrange the accommodation for the participants on individual basis if so desired. Planning Commission can also provide housing subsidy to few deserving cases i.e. junior officials whose daily hotel allowance is not sufficient to meet the expenses at Islamabad Hotels/Hotels.

( ABDUL MAJEED )  
DEPUTY CHIEF

Encl : As above (2 copies)

14th May, 1987.

GOVERNMENT OF PAKISTAN  
PLANNING COMMISSION  
NATIONAL TRANSPORT RESEARCH CENTRE

\* \* \* \*

---

NOMINATION AND APPLICATION FOR ADMISSION

Course on Transportation Projects Planning

1987

November - December,

---

OFFICIAL NOMINATION OF CANDIDATE

(This page to be completed by nominating agency after remainder of the application form has been filled out and signed by candidate).

---

(Name of Candidate)

is hereby nominated for the 9th Course on  
Transportation Projects Planning

If the candidate is accepted for this course, the nominating official agreed to fulfil the following conditions set-forth in the Announcement of this Course:

1. The Candidate will be treated on duty for the duration of the course and paid regular salary, travelling/daily allowance and hotel charges.
2. He will be given no other duties or assignments in this period which would prevent the devotion of his full time and attention to the course.

---

Name of Official authorised to sign this nomination for agency  
(Please print or type)

---

Name and Address of agency nominating this candidate

---

Title of nominating official

---

Signature of nominating official

After completion, one copy of this form should be returned before the official closing date (viz 31st August, 1987) to:

CHIEF (NTRC), PLANNING COMMISSION,  
GOVERNMENT OF PAKISTAN, BLOCK 4-B, MARKAZ F-7,  
ISLAMABAD (Tele: 826282/810626 or 829903)

To be completed by applicant; PLEASE TYPEWRITE IN ENGLISH

Full Name Miss

(Attach in this space a photograph taken within the past year).

The one name used when Mrs you are addressed as Mr.

Address to which correspondence with you regarding this application should be sent.

Office Telephone.....

Citizenship Date of Birth

Title of your present position Date promoted to present post

Name of agency, department or institution

Name of title of supervisor

Summarize your duties and responsibilities using only this space

Previous Position:

Name of agency, department or institution	Title of Position	Dates employed (month & Year)	
		From	To



Name of Applicant.....:-

-----

EDUCATION

Universities, technical or special schools (Do not list schools below University level)

Name of School, Place & Country	Type of School	From (Year)	To (Year)	Degrees & academic distinctions

Others training programmes abroad (give dates, locations & subject covered)

-----  
-----  
-----

Additional experience, membership on commissions or committees, publication, travel foreign assignments, participation in special projects, international conferences, etc.

-----  
-----  
-----

Please provide a statement explaining why you are applying for this Course, in what way it relates to your work, what you hope to derive from it and how you expect your training to benefit your agency.

-----  
-----  
-----

ANNOUNCEMENT OF  
9TH TRANSPORTATION PROJECTS  
PLANNING COURSE (23RD NOV. - 31ST DEC. 1987)  
(FOR OIC/REGIONAL MEMBER COUNTRIES)

### INTRODUCTION

National Transport Research Centre, Planning Commission, Government of Pakistan is a research organization devoted to carrying out fundamental research on all modes of transport. Apart from its research endeavours, the Centre also provides professional training in Transportation Projects Planning. To date the Centre have organized eight such Courses. The 9th Course is scheduled to be held at Islamabad, from 23rd November to 31st December, 1987.

### COURSE OBJECTIVES

The Course is designed to equip the senior and middle level professionals engaged in transport related activities with theoretical and practical skills in the methods and techniques of preparation, evaluation, appraisal and implementation of transportation Projects.

### OUTLINE PROGRAMME

The brief outline of the course is as follows:—

- I. Planning & Development:
  - Basic Project Concept
  - Economic Development & Planning Concepts
  - Development Plans and Projects
  - Demand, Supply and Prices
  - Forecasting Techniques
  - Project Cycle
- II. Financial and Economic Analysis:
  - Cash-Flow Analysis

- Measure of Project Worth, B/C Ratio
- Risk and Sensitivity Analysis
- Shadow Pricing
- Internal Rate of Return

### III. Project Implementation:

- Project Management and Organization
- Co-ordinating and Controlling Techniques
- Project Monitoring—CPM Techniques

### IV. General:

- Highway Safety Measures
- Role of Consultant
- Decision Theories
  - Managerial Problems
  - Group Discussion
  - Case Studies
  - Field Visits

Each participant will be provided with a set of reading material which he will be allowed to retain at the completion of the Course. On successful completion of the Course, each participant will receive a certificate of attendance which will not be graded.

### LANGUAGE REQUIREMENT

The course will be conducted in English.

### VENUE

The Course will be held from 23rd November to 31st December, 1987 at the National Transport Research Centre, Islamabad, Pakistan.

### NOMINATION AND SELECTION OF PARTICIPANTS

The Course is limited to only 25 participants.

The member Countries of OIC and SAARC are invited to nominate at least two candidates from their respective public or private sector agencies. Candidates should normally be:—

- (i) in possession of a University degree in transportation related fields;
- (ii) Having experience of working in transport related job.

Registration form is annexed. Completed forms may be returned to the Chief, National Transport Research Centre (NTRC), Planning Commission, Government of Pakistan, Block 4-B, Markaz F-7, Islamabad — Pakistan by 31st August, 1987 at the latest.

#### FINANCIAL ARRANGEMENTS

No fee will be charged for the Course. The participants will however bear the cost of:—

- a) Round air trip to Islamabad
- b) Boarding & Lodging in Pakistan
- c) Internal travel related to the training programme approximately Rs. 6000/-
- d) Incidentals to travel abroad e.g. passport, visa, medical examination, inoculation, etc.
- e) Salary and related allowances for the participants during the period of training.

#### ADMINISTRATIVE

1. Necessary boarding and lodging can be arranged if desired.
2. Transportation from hotel to venue of the Course shall be provided.
3. Light refreshments during the Course also provided.

APPLICATION/NOMINATION FORM  
9TH TRANSPORTATION PROJECTS PLANNING COURSE  
23RD NOVEMBER - 31ST DECEMBER, 1987)  
(FOR OIC/REGIONAL MEMBER COUNTRIES)

**NINTH PLANNING COMMISSION**  
**COURSE ON TRANSPORTATION**  
**PROJECTS PLANNING**  
(23rd November to 31st December 1987)

**PART - B**  
**NOMINATION**

Registration Form  
**PART - A**  
**APPLICATION**

1. Full name .....
2. Date of birth .....
3. Place of birth .....
4. Address: Official .....
- Residence .....
- Telephone/Office: .....
- Residence: .....
- Telex: .....
5. Educational Qualifications:  
(Please start with the highest degree)  
University          Degree          Year  
.....  
.....
6. Work Experience:  
(Please start with the present position)

Employer	Date From-To	Title with brief description
.....	.....	.....
.....	.....	.....

7. Please indicate the level of your command of English language

	Excellent	Good	Poor
Speaking .....			
Reading .....			

8. I hereby apply for a place in this training programme.

Date.....                      Signature of Applicant

Recommendation of the Organization/  
Government nominating the applicant

This application has the support of the  
.....  
Organization/Department/Ministry of Govern-  
ment of .....

..... If the applicant is selected as a participant he will be released from duties to attend the training programme and will be provided with a return air ticket from his place of posting to Islamabad, Pakistan, in addition he will be provided in advance all expenses of lodging/boarding, daily allowances, internal travel, etc., relating to training programme.

Signature .....

Designation .....

.....

Department/Ministry.....

.....

Note:- The completed application form should be sent to:

The Chief,  
National Transport Research Centre,  
Planning Commission,  
Government of Pakistan  
Block-4/B, Markaz F-7,  
Islamabad, Pakistan.

- All applications must reach at the above address by 31st August, 1987.
- Candidates employed in private sector organizations are also eligible after necessary clearance from the Governments of their respective countries.

LIST OF AGENCIES

1. The Secretary,  
Ministry of Communications,  
Government of Pakistan,  
Islamabad:
2. The Secretary,  
Communication & Works Department,  
Government of Punjab,  
Lahore:
3. The Secretary,  
Communication & Works Department,  
Government of NWFP,  
Peshawar:
4. The Secretary,  
Communication & Works Department,  
Government of Sind,  
Karachi:
5. The Secretary,  
Communication & Works Department,  
Government of Baluchistan,  
Quetta:
6. The Director General,  
Pakistan Public Works Department,  
Government of Pakistan,  
Islamabad:
7. The Secretary,  
Public Works Department,  
Government of Azad Jammu & Kashmir,  
Muzaffarabad:
8. The Chief Engineer,  
Building & Road Department,  
Government of NWFP,  
Peshawar:

9. The Chief Engineer (Development),  
Building & Roads Department,  
Government of NWFP,  
Peshawar:
10. The Chief Engineer,  
Central Design Office,  
B & R Department, 10-Shami Road,  
Peshawar Cantt:
11. The Chief Engineer,  
Highway Department,  
Government of Punjab,  
Lahore:
12. The Chief Engineer,  
Highway Department,  
Government of Sind,  
Karachi:
13. The Director General,  
National Highways Board,  
Islamabad:
14. The Secretary,  
Ministry of Railways,  
Islamabad:
15. The General Manager,  
Railway Board,  
Lahore:
16. The Deputy Director General,  
Frontier Works Organization,  
Rawalpindi:
17. The Engineer-in-Chief,  
General Headquarter,  
Rawalpindi:
18. The Director of Supplies & Transport,  
Army Service Corporation,  
General Headquarter,  
QMGs Branch, (S&T Dte),  
Rawalpindi:

19. The Secretary,  
Ministry of Defence,  
Aviation Division,  
Rawalpindi:
20. The Chairman,  
Pakistan International Airlines Corporation,  
Civil Airport,  
Karachi:
21. The Director General,  
Civil Aviation Authority,  
19-Liaquat Barracks/H.Q Napier Barracks,  
Near Taj Mahal Hotel,  
Karachi:
22. The Managing Director,  
Airport Development Agency,  
G-6, KDA., Scheme No. I, Near Karsaz,  
Karachi-8:
23. The Chairman,  
Karachi Port Trust,  
Adamjee Dinshaw Road,  
Karachi:
24. The Chairman,  
Port Muhammad Bin Qasim Authority,  
P.O. Box Port Qasim,  
Karachi - 48:
25. The Chairman,  
Pakistan Automobile Corporation,  
6th Floor,  
PNSC - Building,  
Moulvi Tamizuddin Khan Road,  
Karachi:
26. The Chairman,  
Pakistan National Shipping Corporation,  
PNSC - Building,  
Karachi:

27. The Chairman,  
Karachi Development Authority,  
KDA - Building,  
Shahrah-e-Kamal Attaturk,  
Karachi:
28. The Chairman,  
Lahore Development Authority,  
Lahore:
29. The Chairman,  
Peshawar Development Authority,  
Peshawar:
30. The Chairman,  
Quetta Development Authority,  
Quetta:
31. The Chairman,  
Baluchistan Development Authority,  
Civil Secretariat,  
Quetta:
32. The Chairman,  
Kohistan Development Authority,  
Dasu:
33. The Chairman,  
Development Authority,  
Teribal Area,  
Peshawar:
34. The Director General,  
Lahore Development Authority,  
Lahore:
35. The Director General,  
Multan Development Authority,  
Multan:
36. The Director General,  
Faisalabad Development Authority,  
Faisalabad:



37. The Director General,  
Hyderabad Development Authority,  
Hyderabad:
38. The Director General,  
Quetta Development Authority,  
Quetta:
39. The Member (Technical),  
Capital Development Authority,  
Islamabad:
40. The Secretary,  
Hyderabad Development Authority,  
38-A, G.O.R. Colony,  
Hyderabad:
41. The Administrator,  
Municipal Corporation,  
Rawalpindi:
42. The Administrator,  
Municipal Corporation,  
Lahore:
43. The Administrator,  
Municipal Corporation,  
Faisalabad:
44. The Administrator,  
Municipal Corporation,  
Karachi:
45. The Administrator,  
Municipal Corporation,  
Peshawar:
46. The Secretary,  
Local Govt. & Rural Development,  
Government of Punjab,  
Lahore:
47. The Secretary,  
Local Govt. & Rural Development,  
Government of Sind,  
Karachi:

48. The Secretary,  
Local Govt. & Rural Development,  
Government of NWFP,  
Peshawar:
49. The Secretary,  
Local Govt. & Rural Development,  
Government of Baluchistan,  
Quetta:
50. The Secretary,  
Local Govt. & Rural Development,  
Govt. of Azad Jammu & Kashmir,  
Muzaffarabad:
51. The Chief,  
Transport & Communication Section,  
Planning & Development Division,  
Islamabad:
52. The Chief,  
Project Appraisal Section,  
Planning & Development Division,  
Islamabad:
53. The Chairman,  
Planning & Development Board,  
Government of the Punjab,  
Lahore:
54. The Additional Chief Secretary,  
Planning & Development Department,  
Government of Sind,  
Karachi:
55. The Additional Chief Secretary,  
Planning and Development Department,  
Government of NWFP,  
Peshawar:
56. The Additional Chief Secretary,  
Planning and Development Department,  
Government of Baluchistan,  
Quetta:

	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
ing in Chief's HQ.	-	-	-	-	-	1	-	-	-	2	3
ner Peshawar	-	-	-	-	-	1	-	-	-	-	1
ty of Engg: & SY, Lahore.	-	-	-	-	-	-	1	-	-	-	1
5. Karachi	-	-	-	-	-	-	1	-	-	-	1
velopment	-	-	-	-	-	-	-	1	-	-	1
nt General of	-	-	-	-	-	-	-	3	-	-	3
olem & Natural S.	-	-	-	-	-	-	-	1	-	-	1
Logestic Cell.	-	-	-	-	-	-	-	-	-	-	-
ernment & Rural ent, Azad Kashmir.	-	-	-	-	-	-	-	-	1	-	1
velopment Authority	-	-	-	-	-	-	-	-	-	1	1
ev: Authority.	-	-	-	-	-	-	-	-	-	1	1
ber country.	-	-	-	-	-	-	-	-	1	1	2
r Countries.	-	-	-	-	-	-	-	-	-	6	6
22+1 (obs)	25	24	23	27	15	17	13	196+2 (obs)			

57. The Development Commissioner,  
Planning and Development Department,  
Govt. of Azad Jammu and Kashmir,  
Muzaffarabad:
58. The Secretary (Transport),  
Government of Punjab,  
Lahore:
59. The Secretary (Transport),  
Government of Sind,  
Karachi:
60. The Secretary (Transport),  
Government of NWFP,  
Peshawar:
61. The Secretary (Transport),  
Government of Baluchistan,  
Quetta:
62. The Managing Director,  
Punjab Urban Transport Corporation,  
OPP. Liberty Market, Gulberg-III,  
Lahore:
63. The Managing Director,  
Karachi Transport Corporation,  
Karachi-8:
64. The Managing Director,  
Punjab Road Transport Board,  
Lahore:
65. The Chairman,  
Sind Road Transport Corporation,  
Thandi Sarak,  
Hyderabad:
66. The General Manager,  
Government Transport Services,  
Government of NWFP,  
Peshawar:
67. The Secretary,  
Provincial Transport Authorities,  
Government of the Punjab,  
Lahore:

68. The Secretary,  
Provincial Transport Authorities,  
Government of Sind,  
Karachi:
69. The Secretary,  
Provincial Transport Authorities,  
Government of NWFP,  
Peshawar:
70. The Secretary,  
Provincial Transport Authorities,  
Government of Baluchistan,  
Quetta:
71. The Secretary,  
Regional Transport Authority,  
Rawalpindi:
72. The Inspector General of Police,  
Government of the Punjab,  
Lahore:
73. The Inspector General of Police,  
Government of Sind,  
Karachi:
74. The Inspector General of Police,  
Government of NWFP,  
Peshawar:
75. The Inspector General of Police,  
Government of Baluchistan,  
Quetta:
76. The Inspector General of Police,  
Govt. of Azad Jammu & Kashmir,  
Muzaffarabad:
77. The Commissioner,  
Rawalpindi:
78. The Commissioner,  
Lahore:
79. The Commissioner,  
Multan:

80. The Commissioner,  
Bahawalpur:
81. The Commissioner,  
Sargodha:
82. The Commissioner,  
Karachi:
83. The Commissioner,  
Hyderabad:
84. The Commissioner,  
Sukkur:
85. The Commissioner,  
Peshawar:
86. The Commissioner,  
D. I. Khan:
87. The Commissioner,  
Abbottabad:
88. The Commissioner,  
Malakand:
89. The Commissioner,  
Quetta:
90. The Commissioner,  
Kalat:
91. The Commissioner,  
Sibi:
92. The Commissioner,  
Makran:
93. The Commissioner,  
Gilgit:

94. The Vice Chancellor,  
University of Engineering & Technology,  
Peshawar:
95. The Vice Chancellor,  
N.E.D. University of Engg: & Technology,  
Karachi:
96. The Professor of Civil Engineering,  
University of Engineering & Technology,  
Lahore:
97. The Director,  
Pakistan Institute of Development Economics,  
P. O. Box No. 1091,  
Islamabad:
98. The Director,  
Applied Economics Research Centre,  
University of Karachi,  
Karachi:
99. The Deputy Director,  
Statistics Division,  
I. S. M. C. H. Society,  
Karachi:
100. M/s Noon Qayyum & Company,  
Consulting Engineer & Architects,  
I-Nursery Lane, Lawrence Road,  
Lahore:
101. M/s Republic Engineering Corporation Ltd.,  
76/E.I., Gulberg-III,  
Lahore:
102. The Managing Director,  
NESPAK Ltd.,  
417-WAPDA House,  
Shahrah-e-Quaid-e-Azam,  
Lahore:
103. The Economic Analyst,  
Tourism Division,  
Commercial Area, Markaz F-7,  
Islamabad:

104. The Chairman,  
Pakistan Tourism Development Corporation,  
2-St, 61, F-7/4,  
Islamabad:
105. The District Manager,  
P.R.T.C.,  
Rawalpindi:
106. Auditor General of Pakistan,  
Gulberg No.III,  
Guroo Manghat,  
Lahore:
107. OIC Member Countries,  
C/o Ministry of Foreign Affairs,  
Government of Pakistan,  
Islamabad:
108. SAARC Member Countries,  
C/o Ministry of Foreign Affairs,  
Government of Pakistan,  
Islamabad:



LIST OF NOMINATED CANDIDATES

S.No.	Name	Designation	Department
1.	Capt. Bashir Ahmed Vistro	Deputy Manager	Pakistan National Shipping Corporation, Karachi.
2.	Mr. Ishtiaq Hussain	Tourism Officer	Pakistan Tourism Development Corporation Ltd.
3.	Mr. Nasir Sultan	Major	Engineer in Chief's Branch G.H.Q., Rawalpindi.
4.	Mr. Moheed Ahmed	XEN	Engineer in Chief's Branch G.H.Q., Rawalpindi.
5.	Mr. Zahid Hussain Bugti	Assistant Town Planner	Quetta Development Authority, Quetta.
6.	Mr. Khair Muhammad Solangi	Assistant Director	National Highways Board, Islamabad.
7.	Mr. Muhammad Ali Abro	Assistant Engineer	C & W Department Government of Sind, Karachi.
8.	Mr. Ali Akbar Shah	Assistant Engineer	C&W Department Government of Sind, Karachi.
9.	Mr. Ghulam Mustafa	Assistant Director	Pakistan Audit Department Lahore.
10.	Mr. Syed Muhammad Rais	D. S. P.	Government of Sind, Karachi.
11.	Shah Muhammad Balouch	Inspector	Government of Sind, Karachi.
12.	Mr. S. Mohammad Shah	Assistant Director	Karachi Development Authority, Karachi.
13.	Mr. Mumtaz Haider	Assistant Controller	Karachi Development Authority, Karachi.
14.	Mr. Mohammad Hafiz	Executive Engineer	Highway Division C & W Department, Sargodha.
15.	Mr. Mohammad Siddique Balouch	Executive Engineer	Highway Division C & W Department, Bahawalnager.
16.	Mr. Abdol Hossein Akbari	Budget Expert	Iranian Civil Aviation Iranian, Ministry of Road & Transport.

S.No.	Name	Designation	Department
17.	Mr. Masood Ahmed Jumani	Assistant Director	Hyderabad Development Authority, Hyderabad.
18.	Mr. Shahid Ahmad	Production Engineer/ D.S.M.	Pakistan Railways, Rawalpindi.
19.	Mr. Abdul Wahab	Divisional Engineer- II.	Pakistan Railways, Lahore.
20.	Mr. Tahir Azim	Assistant Chief	Planning & Development Department Civil Secretariat, NWFP, Peshawar.
21.	Mr. M.Nehmat Ullah	Assistant Manager Financial Analysis	Pakistan International Airlines.
22.	Syed Saeed Raza	Major	Army Service Corps. (ASC)
23.	Ch. Quddret Ali	Major	Army Service Corps. (ASC)
24.	Mr. Naseem Al Ahmed	Engineer	(Amman) Jordan.
25.	Mr. Ayad M. Shushan		Secretariat of Communication Maritime Transport Government of Libya.
26.	Mr. Mokhtar Allaghi	Engineer	Secretariat of Communication Maritime Transport Government of Libya.
27.	Mr. Ahmed Muhammad Saud Al-Tamimi	Officer(Contracts)	Ministry of Communication Government of Oman (Muscat)
28.	Mr. Yahia Al-Kohlani	Asstt: General Manager (Planning)	General Transport Corpora- tion Head office (Sana'a), Yemen Arab Republic.
29.	Mr. Fouad Ali Muhammad Al-Aolqi	Manager (Planning)	General Transport Corpora- tion Head Office (Sana'a), Yemen Arab Republic.
30.	Mr. Ali Muhammad Shekan	Manager Tourism	General Transport Corpora- tion Head Office (Sana'a), Yemen Arab Republic.
31.	Mr. Tashi Dorji	Zonal Transport Officer	Government of Bhutan.

LIST OF THE PARTICIPANTS  
WHO ATTENDED THE COURSE

<u>S.No.</u>	<u>Name of the Participants</u>
1.	Capt. Bashir Ahmed Vistro, Deputy Manager, Pakistan National Shipping Corporation, <u>Karachi:</u>
2.	Major Nasir Sultan, Engineer in Chief's Branch, General Headquarter, <u>Rawalpindi:</u>
3.	Mr. Moheed Ahmed XEN, Engineer in Chief's Branch, General Headquarter, <u>Rawalpindi:</u>
4.	Mr. Zahid Hussain Bugti, Assistant Town Planner, Quetta Development Authority, <u>Quetta :</u>
5.	Mr. S. Muhammad Shah, Assistant Director, Karachi Development Authority, <u>Karachi:</u>
6.	Mr. M. Nehmat Ullah, Assistant Manager Financial Analysis, Pakistan International Airlines, <u>Karachi:</u>
7.	Mr. Ayad M. Shushan, Secretariat of Communication Maritime Transport, Government of Libya, <u>Libya:</u>
8.	Mr. Ahmed Mohammad Saud Al-Tamimi, Officer(Contracts), Ministry of Communication, Government of Oman (Mascut) <u>Oman:</u>
9.	Mr. Mokhtar Allaghi, Engineer, Secretariat of Communication Maritime Transport, Government of Libya, <u>Libya:</u>
10.	Mr. Yahia Al-Kohlani, Assistant General Manager(Planning), General Transport Corporation, Head Office (Sana'a), <u>Yemen Arab Republic:</u>

<u>S.No.</u>	<u>Name of the Participants</u>
11.	Mr. Fouad Ali Muhammad Al-Aolqi, Manager (Planning), General Transport Corporation, Head Office (Sana'a), <u>Yemen Arab Republic:</u>
12.	Mr. Abdol Hossein Akbari, Budget Expert, Iranian Civil Aviation, Ministry of Road & Transport, <u>Iran:</u>
13.	Mr. Tashi Dorji, Zonal Transport Officer, Government of Bhutan, <u>Bhutan:</u>

9TH PLANNING COMMISSION COURSE  
ON  
TRANSPORTATION PROJECTS PLANNING  
23-11-1987 TO 31-12-1987

SESSION A - 1000  
TEA BREAK - 1100  
SESSION B - 1200  
LUNCH BREAK - 1300  
SESSION C - 1400

	SUN	MON	TUE	WED	THU	FRI	SAT
1	22.11.1987	23.11.1987	24.11.1987	25.11.1987	26.11.1987	27.11.1987	28.11.1987
A	REGISTRATION	REGISTRATION	TRANSPORT PLANNING METHODOLOGY	TRANSPORT PRIORITIES FOR 7TH PLAN	ROLE OF TRANSPORT IN DEVELOPMENT TECHNIQUES	MURREE	
B		IMMUCORATION	CONSTRUCTING & DISCOUNTING TECHNIQUES	INTRODUCTION TO TRANSPORT SYSTEM ANALYSIS	PROJECT CYCLE		
C		CRITICAL ISSUES IN TRANSPORT	CASE STUDY	TRANSPORT SYSTEM ANALYSIS METHODOLOGY	PROJECT CYCLE		
2	29.11.1987	30.11.1987	01.12.1987	02.12.1987	03.12.1987	04.12.1987	05.12.1987
A	TRANSPORT DATA REQUIREMENTS	HOLIDAY	INTRODUCTION TO MICRO ECONOMICS-I	TRANSPORT PRICING	COST BENEFIT ANALYSIS		TECHNOLOGICAL INNOVATION IN TRANSPORT
B	REQ. REQUIREMENT OF TRANSPORT		TECHNICAL APPRAISAL OF TRANSPORT PROJECTS	OPERATION RESEARCH-I	COST BENEFIT ANALYSIS		PROJECT MONITORING AND EVALUATION
C	ENERGY REQUIREMENTS OF TRANSPORT		INTRODUCTION TO MICRO ECONOMICS-II	OPERATION RESEARCH-II	CRITICAL PATH METHOD-I		SOCIAL IMPLICATIONS OF TRANSPORT IN DEVELOPMENT
3	07.12.1987	07.12.1987	08.12.1987	09.12.1987	10.12.1987	11.12.1987	12.12.1987
A	MANAGEMENT INFORMATION SYSTEM-I	FINANCIAL ANALYSIS-I	ECONOMIC IMPLICATIONS OF ROAD MAINTENANCE	URBAN TRANSPORT PLANNING	COST ACCOUNTING-I		RAILWAY CARRIAGE
B	MANAGEMENT INFORMATION SYSTEM-II	FINANCIAL ANALYSIS-II	FORECASTING	SAMPLING TECHNIQUES	COST ACCOUNTING-II	TAXILA	ISLAMABAD
C	MANAGEMENT INFORMATION SYSTEM-III	FINANCIAL ANALYSIS-III	FORECASTING (CASE STUDY)	DECISION THEORY	COST ACCOUNTING-III		
4	13.12.1987	14.12.1987	15.12.1987	16.12.1987	17.12.1987	18.12.1987	19.12.1987
A	SENSITIVITY ANALYSIS	ENERGY CONSERVATION IN TRANSPORT	COMPUTER ASSISTED TRANSPORT PLANNING TECHNIQUES	CURRENT ECONOMIC SITUATION-I	HIGHWAY SAFETY/ENFORCEMENT		
B	RISK AND UNCERTAINTY	MANAGING URBAN BUS TRANSPORT	CASE STUDY	ENVIRONMENTAL ASPECT OF TRANSPORTATION		TURBELA	
C	HIGHWAY SAFETY-I	HIGHWAY SAFETY-II	NATIONAL HIGHWAY PLANNING	OPERATION RESEARCH-III	ROLE OF PRIVATE SECTOR IN TRANSPORT		
5	20.12.1987	21.12.1987	22.12.1987	23.12.1987	24.12.1987	25.12.1987	26.12.1987
A	PROBLEMS OF ROAD CONSTRUCTION/ MAINTENANCE	FEDERAL ROADS	RAILWAY PLANNING	ALLOCATION INVESTMENT DECISION	KHUBAL PURA WORKSHOP		ROAD RESEARCH INSTITUTE
B	CURRENT ECONOMIC SITUATION-II	PORT PROJECT (CASE STUDY)	MANAGING RAILWAYS	MANAGING FIA	0900 - 1300 HRS		1300 - 1310 HRS
C	PROJECT PLANNING (PORTS)	NAUTIME TRANSPORT PLANNING	AIRPORT PLANNING	REPARATURE FOR LAHORE	LAHORE DRY PORT		1310 - 1320 HRS
6	27.12.1987	28.12.1987	29.12.1987	30.12.1987	31.12.1987	01.01.1988	
A	SHIPYARD ENGINEERING WORKS	PORT QASIM AUTHORITY	NATIONAL SHIPPING CORPORATION	REPUBLIC HOTELS	LAHORE DRY PORT		ROAD RESEARCH INSTITUTE
B		0900 - 1200 HRS	0900 - 1300 HRS	0900 - 1300 HRS	1430 - 1630 HRS		1320 - 1330 HRS
C	MARAC-I TRANSPORT CORPORATION	PIPER MARSHALLING YARD	P. I. A. C.	TRAFFIC ENGINEERING BUREAU	AWARD OF CERTIFICATES		1330 - 1340 HRS
		1400 - 1600 HRS	1400 - 1630 HRS	1400 - 1630 HRS	1500 HRS		1340 HRS

LIST OF SPEAKERS

<u>S.No.</u>	<u>Name of the Speakers</u>	<u>Subject of the Lecture</u>
1.	Dr. Tahir Masood, Consultant, N.T.R.C., Planning Commission, Islamabad.	<ul style="list-style-type: none"> <li>i) Critical Issues in Transport.</li> <li>ii) Introduction to Transport System Analysis.</li> <li>iii) Transport System Analysis Methodology.</li> <li>iv) Transport System Analysis Analy.- Techniques.</li> <li>v) R&amp;D Requirement of Transport.</li> <li>vi) Eco-Implications of Road Maintenance.</li> <li>vii) Urban Transport Planning.</li> <li>viii) Energy Conservation in Transport..</li> <li>ix) Computer Assisted Transport Planning Techniques.</li> <li>x) Case Study.</li> <li>xi) Environmental Affect of Transportation</li> <li>xii) Problems of Road Construction/Main-tenance.</li> <li>xiii) Port Project (Case Study).</li> <li>xiv) Project Planning(Ports).</li> </ul>
2.	Col. Raza Hussain Shah, Deputy Group Componder, 495 Engg: Group (F.W.O), Azad Jammu & Kashmir, Muzaffarabad.	<ul style="list-style-type: none"> <li>i) Transport Planning Methodology.</li> <li>ii) Technological Innovation in-Transport.</li> <li>iii) Feeder Roads.</li> </ul>
3.	Mr. Abdul Majeed, Deputy Chief, NTRC., Planning Commission, Islamabad.	<ul style="list-style-type: none"> <li>i) Compounding &amp; Discounting Techniques.</li> <li>ii) Case Study.</li> <li>iii) Introduction to Micro Economics-I.</li> <li>iv) Introduction to Micro Economics-II.</li> <li>v) Transport Pricing.</li> <li>vi) Cost Benefit Analysis.</li> <li>vii) Forecasting.</li> <li>viii) Forecasting (Case Study).</li> </ul>
4.	Mr. Malik M. Saeed Khan, Chief, T & C Section, Planning Commission, Hijvairy Mansion, Blue Area, Islamabad.	Transport Priorities for 7th Plan.

<u>S.No.</u>	<u>Name of the Speakers</u>	<u>Subject to the Lecture</u>
5.	Mr. Sadaqat Hassan Mir, Ex-Managing Director, ENERPLAN, Islamabad.	<ul style="list-style-type: none"> <li>* i) Role of Transport in Development.</li> <li>* ii) Energy Requirements of Transport.</li> <li>✓ iii) Technical Appraisal of Transport Projects.</li> </ul>
6.	✓ Mr. Anis Mahmood, Research Economist, P.I.D.E., Islamabad.	<ul style="list-style-type: none"> <li>✓ i) Project Cycle.</li> <li>✓ ii) Sensitivity Analysis.</li> </ul>
7.	Mr. Kazim Idris, Deputy Chief, NTRC., Planning Commission, Islamabad.	Transport Data Requirements.
8.	Dr. S. Muhammad Ali Shah, Director, Cabinet Sectt:, O&M Division, Karachi.	<ul style="list-style-type: none"> <li>i) Operation Research-I.</li> <li>ii) Operation Research-II.</li> </ul>
9.	✓ Miss Shamim A. Sahibzada, Chief, Training Programme, P.I.D.E., Islamabad.	<ul style="list-style-type: none"> <li>✓ i) Critical Path Method - I.</li> <li>* ii) Critical Path Method - II.</li> <li>(ii) iii) Risk and Uncertainty.</li> </ul>
10.	Mr. Waliat Khan Chaudhry, Deputy Director, Evaluation & Monitoring Section, Planning & Development Division, Islamabad.	✓ Project Monitoring & Evaluation.
11.	Dr. Masuma Hasan, Director General, O & M Division, Karachi.	Social Implications of Transport in Development.
12.	Mr. Javed Hanif Agha, Deputy Director (Project), Computer Centre, Quaid-e-Azam University, Islamabad.	<ul style="list-style-type: none"> <li>i) Management Information System-I.</li> <li>ii) Management Information System-II.</li> <li>iii) Management Information System-III.</li> <li>iv) Operation Research-III.</li> </ul>
13.	Mr. Zaheer Ahmad Butt, Assistant Professor, Deptt: of Business Administration, University of Punjab, Lahore.	<ul style="list-style-type: none"> <li>(ii) i) Financial Analysis - I.</li> <li>ii) Financial Analysis - II.</li> <li>iii) Financial Analysis - III.</li> </ul>

<u>S.No.</u>	<u>Name of the Speakers</u>	<u>Subject of the Lecture</u>
14.	Mr. S. M. Ishaq, Director General, Federal Bureau of Statistics, I, S.M.C.H. Society, Karachi.	Sampling Techniques.
15.	Mr. Mahmood Ather Zaka, Joint Secretary, Women's Division, H-No. 2, St. No. 60 F-7/4, Islamabad.	Decision Theory.
16. ✓	Mr. Khawaja Amjad Saeed, Chairman, Deptt: of Business Administration, University of Punjab, Lahore.	i) Cost Accounting - I. ii) Cost Accounting - II. iii) Cost Accounting - III.
17.	Mr. M. Sadiq Swati, Chief, NTRC., Planning Commission, Islamabad.	i) Highway Safety - I. ii) Highway Safety - II. iii) Highway Safety/Enforcement.
18.	Brig. (Rtd) S.S.A. Qasim, Ex-Managing Director, 22/II, Khayaban-e-Momin, Phase-V, Defence Housing Society, Karachi - 46:	Managing Urban Bus Transport.
19.	Raja Nowsherwan Sultan, Director (Planning), National Highways Board, Islamabad.	National Highway Planning.
7 20. ✓	Dr. Arshad Zaman, Chief Economist, Planning Commission, Islamabad.	Current Economic Situation - I.
21.	Dr. Ghulam Rasul, Economic Adviser, Ministry of Finance, Islamabad.	Role of Private Sector in Transport.
22.	Dr. Sarfraz Qureshi, Joint Director,	Current Economic Situation - II.



<u>S.No.</u>	<u>Name of the Speakers</u>	<u>Subject of the Lecture</u>
23.	Dr. R. D. Osmer, Adviser (Shipping), Planning & Development Division, Islamabad.	Maritime Transport Planning.
24.	Mr. Alqera Atiq, Manager Research & Development, Civil Aviation Authority, Karachi.	Airport Planning.
25.	Mr. Badshah Gul, General Manager, Corporate Planning Department, P.I.A., Karachi.	i) Aircraft Investment Decision. ii) Managing PIA.
26.	Mr. Ghias-ud-Din, General Manager, Railway Board, Lahore.	i) Railway Planning. ii) Managing Railways.

DETAILS OF COURSE MATERIAL DISTRIBUTED  
AMONG THE PARTICIPANTS

S.No.	T O P I C S	MATERIAL PROVIDED BY NTRC/ SPEAKERS
1.	2.	3.
1.	Critical Issues in Transport	Handout on "Critical Issues in Transport" provided by Dr. Tahir Masood, Consultant, NTRC.
2.	Transport Planning Methodology	Handout on "Transport Planning Methodology" by Col. Raza Hussain Shah Deputy Group Commander, 495 Engg: Group (F.W.O), A. J. K., (Muzaffarabad).
3.	Compounding and Discounting Techniques.	Compounding & Discounting Tables Exercises for Project Evaluation distributed by Mr. Abdul Majeed Deputy Chief, NTRC.
4.	Introduction to Transport System Analysis.	Handout on "Introduction to Transport System Analysis" provided by Dr. Tahir Masood, Consultant, NTRC.
5.	Transport System Analysis Methodology.	Handout on "Transport System Analysis Methodology" provided by Dr. Tahir Masood, Consultant, NTRC.
6.	Transport System Analysis - Analy- Techniques.	Handout on "Transport System Analysis Analy-Techniques" provided by Dr. Tahir Masood, Consultant, NTRC.
7.	Role of Transport in Development.	Material provided by the NTRC.
8.	Project Cycle.	Handout/material provided by Mr. Anis Mahmood, Research Economist, P.I.D.E.,
9.	Transport Data Requirement.	Material provided by the NTRC.
10.	R & D Requirement of Transport	Material provided by Dr. Tahir Masood, Consultant, NTRC.
11.	Energy Requirement of Transport.	a) Handout on "Energy Requirement in Transport" by Mr. Sadaqat Hasan Mir, Ex-Managing Director, ENERPLAN.

1.	2.	3.
12.	Introduction to Micro Economics-I&II.	Handout on 'Micro Economics by Mr. Abdul Majeed, Deputy Chief, NTRC.
13.	Transport Pricing.	Handout on "Transport Pricing" by Mr. Abdul Majeed, Deputy Chief, NTRC.
14.	Cost Benefit Analysis.	Handout on 'Cost Benefit Analysis' by Mr. Abdul Majeed, Deputy Chief, NTRC.
15.	Operation Research-I & II.	Handout on "Operation Research-I & II by Dr. S.Muhammad Ali Shah, Director, Cabinet Sectt: O & M Division, Karachi.
16.	Critical Path Method-I & II.	Handout on the topics distributed by Miss Shamim A. Sahibzada, Chief Training Programme Section, P.I.D. E.
17.	Technological Innovation in Transport.	Handout on "Technological Innovation in Transport" by Col. Raza Hussain Shah, Deputy Group Commander, 495 Engg: Group (F.W.O), A.J.K. (Muzaffarabad).
18.	Project Monitoring and Evaluation.	Handout on "Project Monitoring and Evaluation" by Ch.Waliat Khan, Deputy Director, Evaluation and Monitoring Section, Planning Commission, Islamabad.
19.	Management Information System-I, II & III.	Handout on 'Management Information System' by Javaid Hanif Agha, Deputy Director (Project) Computer Centre, Quaid-e-Azam University, Islamabad.
20.	Social Implication of Transport in Development.	Material provided by the NTRC.
21.	Financial Analysis-I, II & III.	Handout on "Financial Statement Analysis" by Mr. Zaheer Ahmad Butt, Assistant Professor, Department of Business Administration, University of Punjab, Lahore.
22.	Economic Implications of Road Maintenance.	Handout provided by Dr. Tahir Nasood, Consultant, NTRC.
23.	i) Forecasting: ii) Case Study.	Handout on Forecasting and Exercises provided by Mr. Abdul Majeed, Deputy Chief, NTRC.

1.	2.	3.
24.	Urban Transport Planning	Handout on "Management of Urban Transport Planning" Dr. Tahir Masood, Consultant, NTRC.
25.	Cost Accounting-I, II & III.	Handout on "Cost Accounting" by Kahawaja Amjad Saeed, Chairman, Deptt: of Business Administration, Punjab University, Lahore.
26.	Sensitivity Analysis.	Handout given by Mr. Anis Mahmood, Research Economist, P.I.D.E.
27.	Risk & Uncertainty.	a) Handout given by Miss Shamim A. Sahibzada, Chief Training Programme, P.I.D.E. b) Material provided by NTRC.
28.	Highway Safety in Pakistan.	Material on "Highway Safety in Pakistan" provided by NTRC.
29.	Managing Urban Bus Transport	Handout on "Managing Urban Bus Transport" by Brig:(Rtd) S.S.A.Qasim, Ex-Managing Director, Karachi Transport Corporation.
30.	Computer Assisted Transport Planning Techniques.	Handout on "Computer Assisted Transport Planning Techniques" provided by Dr. Tahir Masood, Consultant, NTRC.
31.	National Highway Planning.	Handout on "Highway Planning" by Raja Nowsherwan Sultan, Director(Planning), National Highways Board.
32.	Problems of Road Construction/Maintenance.	Handout on "Problems of Road Construction/Maintenance" provided by Dr. Tahir Masood, Consultant, NTRC.
33.	Maritime Transport Planning.	Handout on "Maritime Transport Planning" provided by Dr. R.D. Osmers, Consultant Shipping, (T & C Section).
34.	Railway Planning.	Material provided by Mr. Ghias-ud-Din, Ex-General Manager, Railway Board, Lahore.
35.	Air Craft Investment Decision.	Material on the topic given by Mr. Badshah Gul, General Manager, PIA.

SOCIAL FUNCTIONS

November, 23, 1987 (Monday)	Inaugural Ceremony arranged by the NTRC at Auditorium of 'P' Block Secretariat.
November, 27, 1987 (Friday)	Visit for Murree.
December, 11, 1987 (Friday)	Visit for Taxila and various places of Islamabad.
December, 12, 1987 (Saturday)	Visited Pakistan Railway Carriage Factory Islamabad & light Refreshment served to the participants by the management of the Factory.
December, 18, 1987 (Friday)	Visit for Terbela Dam.
December, 24, 1987 (Thursday)	Lunch was given in honour of the participants by the General Manager, Railway Board, Lahore.
December, 24, 1987 (Thursday)	Light refreshment arranged by the Collector Customs, Railway, Dry Port, Lahore.
December, 26, 1987 (Saturday)	Light refreshment by the Director, Road Research and Material Testing Institute, Lahore.
December, 26, 1987 (Saturday)	Lunch arranged by the Managing Director, PRTC, Lahore.
December, 27, 1987 (Sunday)	Lunch arranged by the Managing Director, Karachi Shipyard Engineering Works for the participants of the Course.

- December, 27, 1987 (Sunday) Light refreshment arranged by Karachi Transport Corporation, Karachi.
- December, 28, 1987 (Monday) Lunch arranged by the Chairman, Port Qasim Authority, Karachi.
- December, 28, 1987 (Monday) Light refreshment arranged by Deputy Superintending Engineer, Pakistan Railways (Pipri) Karachi.
- December, 29, 1987 (Tuesday) Lunch arranged by the Chairman, Pakistan National Shipping Corporation.
- December, 29, 1987 (Tuesday) Light refreshment arranged by the General Manager (Planning), Pakistan International Airlines, Karachi.
- December, 30, 1987 (Wednesday) Lunch arranged by the Chairman, P.A.C.O. Karachi.
- December, 30, 1987 (Wednesday) Light refreshment arranged by Traffic Engineering Bureau Karachi.
- December, 31, 1987 (Thursday) Lunch arranged at Boat Club by the Chairman, Karachi Port Trust, Certificates were awarded to the participants of the Course by the Chairman, K.P.T.

FIELD VISITS

DATE	DAY	TIME	FROM	TO	PROGRAMME
1.	2.	3.	4.	5.	6.
12th December, 1987	Saturday	1000	N.T.R.C	Railway Carriage Factory Islamabad	Visit for Railway Carriage Factory, Islamabad. (1030-1230 Hrs)
24th December, 1987	Thursday	0900	Indus Hotel Lahore	Mughal Pura Workshop.	Visit for Mughal Pura Workshop Lahore. (0930-1300 Hrs).
		1315	Mughal Pura Work- shop	Lahore Dry Port	Arranged by the General Mana- ger, Railway Board, Lahore.  Visit for Lahore Dry Port (1330-1600 Hrs)
26th December, 1987	Saturday	0900	Indus Hotel Lahore	New Univer- sity Campus	Visit for Road Research & Material Testing Institute. (0930-1100 Hrs.)
		1130	New Univer- sity Campus	Punjab Road Transport Corporation	Visit for Punjab Road Trans- port Corporation, Lahore. (1200-1400 Hrs.)  Arranged by the Director, Pun- jab Road Transport Corporation (1200-1300 Hrs.)
27th December, 1987	Sunday	0900	Jabees Hotel Karachi	Karachi Shipyards Engineer- ing Works	Visit for Karachi Shipyards Engineering Works. (0930-1300 Hrs.)
		1430	K.S.E.W.	K.T.C	Arranged by the Managing Director, K.S.E.W. (1300-1400 Hrs.)  Visit for Karachi Transport Corporation. (1445-1645 Hrs.)

DATE	DAY	TIME	FROM	TO	PROGRAMME
1.	2.	3.	4.	5.	6.
28th December, 1987	Monday	0900	Jabees Hotel Karachi	Port Qasim Authority	Visit for Port Qasim Authority & Lecture delivered by the Chairman P.Q.A. (1000-1230 Hrs.)
				<u>Lunch</u>	Arranged by the Chairman, Port Qasim Authority. (1230-1330 Hrs.)
		1345	P.Q.A	Pipri Marshalling Yard.	Visit for Pipri Marshalling Yard Karachi. (1430-1630 Hrs.)
29th December, 1987	Tuesday	0900	Jabees Hotel Karachi.	P.N.S.C	Visit for Pakistan National Shipping Corporation Karachi (0930-1200 Hrs.)
				<u>Lunch</u>	Arranged by the Chairman, P.N.S.C. (1200-1330 Hrs.)
		1345	P.N.S.C.	P.I.A.C.	Visit for Pakistan International Airlines Corporation. (1415-1630 Hrs.)
30th December, 1987	Wednesday	0900	Jabees Hotel Karachi.	P.A.C.O	Visit for P.A.C.O Suzuki/ Hinopak/Naya Daur Motor Ltd (0930-1330 Hrs.)
				<u>Lunch</u>	Arranged by the Chairman, P.A.C.O.
		1345	P.A.C.O	K.T.E.B.	Visit for Karachi Traffic Engineering Bureau. (1415-1600 Hrs.)
31st December, 1987	Thursday	0900	Jabees Hotel Karachi.	K.P.T	Visit for Karachi Port Trust. (0930-1200 Hrs.)
				<u>Lunch</u>	Arranged by Chairman, Karachi Port Trust. (1200-1300 Hrs.)



9TH PLANNING COMMISSION COURSE ON  
TRANSPORTATION PROJECTS PLANNING

(Islamabad 23rd November - 31st December, 1987)

FIRST WEEK

WEEKLY EVALUATION

(23rd Nov. - 26th Nov. 1987)

(To be filled on daily basis by the participants)

Name \_\_\_\_\_  
(Optional): \_\_\_\_\_

The participants were requested to complete the following Questionnaire on a daily basis to record their candid opinions in the Questionnaire to enable the Course Director to bring about improvement in the present as well as future courses and this to be discussed in the Seminar-

Sl. No.	Date	Lecture	Speakers	Did it meet the Objective		Quality of the material provided		Quality for the Lecture					Suggestions	
				Yes	No	Better than expected	About what was expected	Well prepared	Should have been prepared better	Theoretical	Practical	Other remarks		
1	2	5	4	5	6	7	8	9	10	11	12	13	14	15

1. 23.11.1987 Critical Issues in Transport. Masood
2. 24.11.1987 Transport Planning Methodology. Raza
3. 24.11.1987 Compounding & Discounting Techniques. Majeed
4. 24.11.1987 Case Study. Majeed
5. 25.11.1987 Transport Priorities for 7th Plan. Malik



9TH PLANNING COMMISSION COURSE ON  
TRANSPORTATION PROJECTS PLANNING

(Islamabad 23rd November - 31st December, 1987)

SECOND WEEK

WEEKLY EVALUATION

29th Nov.- 5rd December 1987)

(To be filled on daily basis by the participants

Name

(Optional): \_\_\_\_\_

The participants were requested to complete the following Questionnaire on a daily basis to record their candid opinions in the Questionnaire to enable the Course Director to bring about improvement in the present as well as future courses and this to be discussed in the Seminar-

Sl. No.	Date	Lecture	Speakers	Did it meet the Objective	Quality of the material provided		Quality for the Lecture							
					Better than expected	Less than was expected	Well prepared	Should have been prepared better	Theoretically Oriented.	Practically Oriented.	Other remarks	Suggestions.		
1	2	5	4	5	6	7	8	9	10	11	12	13	14	15

1. 29.11.1987 Transport Data Requirements Kazim
2. 29.11.1987 R & D Requirement of Transport. Masood
3. 29.11.1987 Energy Requirements of Transport. Mir
4. 01.12.1987 Introduction to Micro Economics-I. Majeed



9TH PLANNING COMMISSION COURSE ON  
TRANSPORTATION PROJECTS PLANNING

(Islamabad 23rd November - 31st December, 1987)

THIRD WEEK

(6th Dec. - 10th Dec. 1987)

WEEKLY EVALUATION

(To be filled on daily basis by the participants)

Name \_\_\_\_\_  
(Optional): \_\_\_\_\_

The participants were requested to complete the following Questionnaire on a daily basis to record their candid opinions in the Questionnaire to enable the Course Director to bring about improvement in the present as well as future courses and this to be discussed in the Seminar-

Sl. No.	Date	Lecture	Speakers	Did it meet the Objective Yes No	Quality of the material provided		Quality for the Lecture							
					Better than expected	About what was expected	Well prepared	Should have been prepared better	Theoretical	Practical	Other remarks	Suggestions		
1	2	5	4	5	6	7	8	9	10	11	12	13	14	15
1.	06.12.1987	Management Information System-I.	Agha											
2.	06.12.1987	Management Information System-II.	Agha											
3.	06.12.1987	Management Information System-III.	Agha											
4.	07.12.1987	Financial Analysis-I	Butt											









9TH PLANNING COMMISSION COURSE ON  
TRANSPORTATION PROJECTS PLANNING

(Islamabad 23rd November - 31st December, 1987)

FIFTH WEEK

WEEKLY EVALUATION

(20th Dec.- 23rd Dec. 1987)

(To be filled on daily basis by the participants)

Name \_\_\_\_\_  
(Optional): \_\_\_\_\_

The participants were requested to complete the following Questionnaire on a daily basis to record their candid opinions in the Questionnaire to enable the Course Director to bring about improvement in the present as well as future courses and this to be discussed in the Seminar-

Sl. No.	Date	Lecture	Speakers	Did it meet the Objective		Quality of the material provided			Quality for the Lecture					
				Yes	No	Better than expected	About what was expected	Less than was expected	Well prepared	Should have been prepared better	Theoretically Oriented.	Practical.	Other remarks	Suggestions.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

1. 20.12.1987 Problems of Road Construction/ Maintenance. Masood
2. 20.12.1987 Project Planning(Ports). Masood
3. 20.12.1987 Current Economic Situation-II. Chaudhry
4. 21.12.1987 Feeder Roads. Raza



35

DETAILS OF EXPENDITURE

1. Staff:

Salary of staff for the financial year 1987-88.

- |                                       |            |
|---------------------------------------|------------|
| - One Economic Investigator(Grade-16) | Rs. 26,928 |
| - One Enumerator(Grade-11)            | Rs. 16,800 |

Sub-Total(I) Rs. 43,728

2. Inaugural Session:

- |                         |           |
|-------------------------|-----------|
| - Tea/Light Refreshment | Rs. 1,208 |
| - Public Address System | Rs. 300   |
| - Invitation Cards      | Rs. 560   |
| - Banner                | Rs. 275   |

Sub-Total(2) Rs. 2,343

3. Guest Speakers:

- |                                       |            |
|---------------------------------------|------------|
| - Lectures Fee @Rs. 300/= per lecture | Rs. 19,500 |
| - Travelling/Daily Allowances         | Rs. 10,090 |
| - Hotel Charges                       | Rs. 1,400  |

Sub-Total(3) Rs. 30,990

4. Transport

- |   |           |
|---|-----------|
| - P.O.L for office vehicle deputed for the Course             | Rs. 5,545 |
| - Repair of office vehicle deputed for the Course             | Rs. 657   |
| - Transport hired for the Visit for Murree                    | Rs. 973   |
| - Transport hired at Lahore & Karachi during the Field Visits | Rs. 8,225 |

Sub-Total(4) Rs. 15,400

5. Refreshment:

- |   |           |
|---|-----------|
| - Tea/Refreshments served to the participants during the Course | Rs. 4,970 |
|---|-----------|

Sub-Total(5) Rs. 4,970

6.	<u>Stationery:</u>	
	- Stationery used during the Course	Rs. 3,375
		Sub-Total(6) Rs. 3,375
7.	<u>Lecture Hall:</u>	
	- Furniture for lecture hall	Rs. 4,200
	- Air Conditioner for lecture hall	Rs. 31,800
		Sub-Total(7) Rs. 36,000
8.	<u>Subsidy:</u>	
	- Subsidy provided to the SAARC participant during course regarding Accommodation, Meal, Local Travelling and Daily Allowance etc.	Rs. 13,310
		Sub-Total(8) Rs. 13,310
9.	<u>Field Visits:</u>	
	- T/A, D/A of officer of the Centre during field visits	Rs. 4,646/=
		Sub-Total(9) Rs. 4,646/=
10.	<u>Printing:</u>	
	- Printing of Course Material/ photo copying etc.	Rs. 3,570
	- Printing of Certificates awarded to the participants	Rs. 530
		Sub-Total(10) Rs. 4,100
11.	<u>Postage/Telegrams:</u>	Rs. 1,746
12.	<u>Honoraria:</u>	Rs. 3,010
13.	<u>Miscellaneous:</u>	Rs. 10,327
		GRAND TOTAL(1-13) Rs. 173,945

TOTAL NUMBER OF PERSONS TRAINED IN DIFFERENT  
TRANSPORTATION PROJECTS PLANNING COURSES

ANNEXURE - XV

Organization	First Course Oct., 28- Nov., 29 1976	Second Course Sept., 19- Oct., 23 1977	Third Course Oct., 1- Nov., 25 1978	Fourth Course Sept., 15- Oct., 25 1979	Fifth Course Nov., 13- Dec., 22 1983	Sixth Course Oct., 7- Nov., 15 1984	Seventh Course Nov., 3- Dec., 12 1985	Eighth Course Nov., 3- Dec., 18 1986	Ninth Course Nov., 23- Dec., 31 1987	Total Cols., (3-11)
	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
Division	1	1	1	2	-	1	-	-	-	6
Division of Communication Islamabad.	-	1	-	2	-	-	-	-	-	3
Division, Islamabad.	-	-	-	1	-	-	-	-	-	1
Division.	-	-	1	-	-	-	-	-	-	1
Division	-	-	1	1	-	2	-	-	-	4
International	1	6	3	1	-	2	2	1	1	17
	1	1	2	-	1	-	-	-	-	5
Division, Islamabad.	1	-	2	-	-	1	-	1	-	5
Board Lahore.	2	3	3	2	-	-	-	-	-	10
	-	1	-	-	-	-	-	-	-	1
	1	1	-	1	2	-	-	-	-	5
S.C.	-	1	1	1	1	1	-	1	1	7

2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
Authority	1	1	1	1	2	1	1	1	-	9
	2	-	2	1	2	-	-	1	-	8
NWFP	2	2	-	-	1	2	1	2	-	10
NWFP	-	-	1	-	-	-	-	-	-	5
FP	1	-	-	-	2	-	1	-	-	4
Punjab	-	-	-	-	1	-	-	1	-	3
Punjab	2	-	-	-	-	-	-	-	-	1
Highway Deptt.	-	1	-	1	-	-	-	-	-	2
Building Deptt.	-	-	-	1	-	1	-	-	-	3
Ocean Transport	2	-	-	-	-	-	-	-	-	1
Baluchistan	-	-	-	1	1	1	2	-	-	2
Baluchistan	-	1	-	-	-	-	-	-	-	5
Baluchistan	-	1	-	1	-	-	-	-	-	1
Baluchistan	-	-	2	-	-	-	-	-	-	2

2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
Azad Kashmir	-	-	1	1	1	-	-	-	-	3
Azad Kashmir	1	-	1	-	-	-	-	-	-	2
Azad Kashmir	-	1	-	-	-	-	-	-	-	1
Hyderabad.	-	1	-	-	-	-	-	-	-	1
Transport	-	-	-	1	1	1	-	-	-	1
Karachi	-	-	-	1	-	-	-	-	-	3
Mabad.	-	-	-	1	1	-	-	-	-	1
University of Engg: S.Y. Karachi.	-	-	-	1	-	-	-	1	-	3
and, Karachi	-	-	-	1	-	1	-	-	-	1
	1	-	-	-	-	-	-	2	-	4
Engineering	1	-	-	-	-	-	-	-	-	1
Trust	-	-	-	-	-	-	-	-	-	1
Corps.	-	-	-	-	1	1	-	1	-	3
Development	-	-	-	-	9	10	2	4	-	25
	-	-	-	-	1	-	-	-	-	1