



13. Department of Educational Measurement and Evaluation

Examinations are the most vital part of any process of education. Keeping this in view the NCERT undertakes programmes related to educational measurement and evaluation particularly in the area of 'examination reforms'. The programmes are specially focused on research, development of material and training of key resource persons in the area of educational evaluation. It is meant for providing academic and technical support to examination agencies in the States/UTs.

The department's vision is to institutionalise evaluation as a powerful, inexpensive, valid and reliable instrument for assessing students' performance with regard to their growth, development and achievement in different areas. Besides, evaluation is to be used as an effective instructional strategy for bringing about qualitative improvement in education. The department also visualises that the evaluation process must be humane, learner friendly, transparent and stress free with a view to making it more credible. It should also cater to the needs of creative talent in diversified fields. In functional terms it means:

- the introduction of school based evaluation in order to reduce overemphasis on public examinations and in turn to minimise stress on the students due to fear and curriculum load;
- provision of flexibility in the conduct of examinations in terms of time, number of chances and the number of subjects to be taken up for examination at a time;
- provision to make the public examination at Class X level optional;
- introduction of grading system and elimination of pass and fail system;
- evolving a system of evaluation which is both continuous and comprehensive. Continuous would mean integrating evaluation with teaching and learning and making it a part of instructional strategy to get the feedback frequently

on student performance, teacher performance, curriculum and materials with a purpose of providing corrective measures. Comprehensive would mean that the evaluation would encompass all the dimensions of pupil growth i.e., cognitive, affective and psychomotor;

- ❑ improving the typology of questions in testing in order to test meta-cognitive skills and to make evaluation more reliable, valid and purposeful;
- ❑ conduct of periodic achievement surveys at different stages of school education to keep a tab on the health of the system. The survey data is used to develop a Systemic Quality Index (SQI) as a means of situating students' achievement in a web of data about socio-economic and systemic conditions in different states and regions;
- ❑ building capacity of teachers in different aspects of educational evaluation;
- ❑ undertaking need-based research in educational evaluation;
- ❑ developing conceptual and exemplar materials in evaluation to strengthen evaluation procedures in schools and Boards;
- ❑ sensitising stakeholders that evaluation has to be learner friendly and humane;
- ❑ identifying talent from diversified groups like rural, urban, boys, girls, socially and economically disadvantaged, Children with Special Needs and school dropouts;
- ❑ nurturing the identified talent through financial and academic assistance; and
- ❑ striving to evolve into a National Evaluation Organisation in due course of time.

Major Activities of the Department during 2008-2009

RESEARCH

A Qualitative Analysis of State Level Tests of National Talent Search Examination

The National Talent Search Scheme follows two stage selection processes. The first stage is conducted by states/UTs and the second stage is conducted by NCERT. It has been observed that from some states candidates do not figure in the final selection, whereas from some other states a large number of students are selected. It was, therefore, thought to study the quality of state level NTS tests in order to improve it. Proformas for evaluation of question papers of SAT and MAT were prepared. Subsequently, Class VIII SAT and MAT question papers for the year 2008 were analysed by experts from 26 to 30 May 2008 and the 14 to 18 July 2008. All the States/UTs State Level SAT and MAT question papers were analysed and the feedback was provided to the respective States/UTs for improving their future question papers.

Identification of Intervention Strategies to Reduce Examination Stress among Secondary School Students

The analysis of the data of the study is in progress. The questionnaire/schedules one each for parents, class teachers, principals and press were also drafted to collect information about suicide cases.

Mid-term Achievement Survey at the End of Class III

The data of the survey was analysed. The trend report was presented in 7th Joint Review Mission (JRM) under SSA in MHRD. Report of all States/UTs and nation has been prepared.

Mid-term Achievement Survey at the End of Class VII/VIII

Mid-term cycles for Achievement Survey at the end of Class VII and VIII were initiated in 2007. The tools and tests were administered across the states in February-March 2008. The data have been analysed and the report is under preparation.

Mid-term Achievement Survey at the End of Class V

The summary has been completed and the report was shared and circulated to states for the necessary interventions in SSA at appropriate level.

A Study of Internal Assessment Practices in Relation to Students Performance in Public Examinations at Secondary Stage

The data for the study were collected from 17 schools, 51 teachers and 510 students. Records of subject-wise marks as well as aggregate marks secured by sampled students were collected from CBSE. Analysis of data in the light of the objectives has been carried out and writing of the report is in progress.

A Study of Examination Stress among Secondary School Students

Examination Stress Scale for Students (ESSS) and Examination Stress Observation Scale for Parents (ESOSP) were used to study the examination stress among secondary school students. Factors of examination stress have been identified and correlation of stress with certain demographic variables has also been studied. The report of the study has been published.

Low Achievement among SC Children at Upper Primary Stage – Teachers' Perception and Strategies

Under Sarva Shiksha Abhiyan, NCERT conducted Base Line Achievement Surveys at the end of the Class V and Class VII/VIII. These surveys revealed the low achievement in Language and Mathematics among SC children. The present study has been planned to know about the perception of teachers about the low achievement of SC children and strategies used by them for enhancing the same. The sample for the present study has been drawn from the upper primary schools located in the 12 special focus districts identified by the MHRD from the State of Chhattisgarh, Jharkhand, Madhya Pradesh and Rajasthan. Analysis of the data is in progress.

DEVELOPMENT**Development of Software for Disbursement of NTS Scholarship**

The software for the disbursement of NTS Scholarship was developed and launched in January 2009. After this it is possible for the awardees to submit their claim bills online along with bank details. The claim bills are being processed and the scholarships are being sent directly to the bank accounts of awardees.

Development of a Model Culture Fair Mental Ability Test for the National Talent Search Examination

The development of a culture fair test has been initiated. A workshop was conducted for the preparation of culture fair mental ability test on 2-5 March 2009.

TRAINING AND EXTENSION

Training Programme for State Resource Persons in Educational Evaluation

The training programmes on Educational Evaluation for education officers of the Boards of Secondary Education was organised at NIE, New Delhi, from 13 to 23 October 2008 and 8 to 17 December 2008. The training focused to build the capacity of the board personnel in the areas such as examination reforms as envisaged in NCF-2005, paradigm shift in pupil evaluation, Continuous and Comprehensive Evaluation (CCE), developing items testing higher mental abilities, grading, analysis of examination results, internal assessment at secondary stage, inter and intra examiner variability in evaluation, transparency in public examination, flexibility in assessment, examination stress and other relevant concerns and issues.

Capacity Building in Educational Evaluation

Two capacity building programmes for key resource persons of Maharashtra State Board of Secondary and Higher Secondary Education and Jarkhand Academic Council on Quality Question Setting was organised from 3 to 7 October 2008 at Pune and 24 to 28 October 2008 at Ranchi. Theoretical deliberations were made on quality question setting which was followed by practicum. During practicum, exemplar quality questions for Question Banks were developed in different subjects namely, English, Hindi, Marathi, Social Studies, Science and Mathematics. About 50 teachers and academic officers of the Maharashtra State Board of Secondary and Higher Secondary Education and 55 teachers and academic officers of the Jarkhand Academic Council participated in these programmes.

National Conference of Chairpersons of Boards of School Education

A total of 23 Chairpersons or their representatives from 16 School Education Boards attended the National Conference of Chairpersons. The recommendations of NCF-2005 and its Focus Group on Examination Reforms and recommendations of the last Conference held in 2007 were discussed. The initiatives taken up by different Boards were shared during the Conference. Strategies in the area of question setting, conduct of examinations and strengthening academic wings of Boards were worked out for implementation in near future by Boards. Report of the Conference has been prepared and circulated to all Boards of Schools Education.

Conduct of Nurturance Programme for NTS Awardees

Five nurturance programmes each of five-day duration were conducted for NTS awardees of 2007 studying in Class IX organised at NIT, Jalandhar, from 5 to 9 January 2009, RIE, Mysore from 5 to 9 January 2009, IIT, Chennai, from 17 to 21 January, RIE, Bhubaneswar from 19 to 23 January and University of Pune

from 2 to 6 February 2009. The awardees were given exposure on different fields of knowledge besides field visits and lab visits.

Chacha Nehru Scholarship for Artistic and Innovative Excellence

NCERT provides Chacha Nehru Scholarship for Artistic and Innovative Excellence to 189 students studying in Classes IX to XII. The awardees are identified by National Bal Bhawan. These scholarships are awarded to the students in the field of creative performance, creative arts, creative scientific innovation and creative writing.

National Talent Search Scheme

The National Talent Search Scheme is a flagship programme of NCERT. It has been conducted since 1963. The purpose of the scheme is to identify and nurture 1000 talented students every year. The identification of talent has been carried out at the end of Class X for many years but since 2007 this scheme has been shifted to Class VIII. However, for two selection years (2007 and 2008) the examination at Class X has continued in order to give a chance to those students who were in Classes IX and X. The scholarship is being paid to 1000 students selected in each class. Out of 1000 scholarships, 225 scholarships are reserved for SC and ST candidates. The tables indicating the number of awardees selected in the year 2008 are given below separately for Classes VIII and X.

State-wise and Category-wise Number of Awardees of NTSE-2008 for Class VIII

S.N.	States/UTs	Category			
		General	SC	ST	Total
1.	Assam	1	2	2	5
2.	Manipur	6	2	2	10
3.	Mizoram	-	-	3	3
4.	Sikkim	-	-	2	2
5.	Tripura	1	3	-	4
6.	Andaman & Nicobar Islands	-	-	1	1
7.	Bihar	20	6	2	28
8.	Jharkhand	25	1	11	37
9.	Orissa	33	7	7	47
10.	West Bengal	10	11	3	24
11.	Chandigarh	6	1	-	7
12.	Delhi	29	2	1	32
13.	Jammu & Kashmir	1	-	-	1
14.	Haryana	37	3	-	40
15.	Himachal Pradesh	1	3	-	4
16.	Punjab	42	10	-	52
17.	Rajasthan	52	1	8	61
18.	Uttar Pradesh	88	21	3	112
19.	Uttarakhand	10	2	-	12
20.	Chhattisgarh	18	3	5	26
21.	Goa	1	-	1	2

22.	Gujarat	15	1		16
23.	Madhya Pradesh	24	6	3	33
24.	Maharashtra	175	57	17	249
25.	Andhra Pradesh	24	5	2	31
26.	Karnataka	72	9	3	84
27.	Kerala	38	4	1	43
28.	Puducherry	1	-	-	1
29.	Tamil Nadu	27	6	-	33
	Total	757	166	77	1000

State-wise and Category-wise Awardees of NTSE-2008 for Class X

S.N.	States/UTs	Category			
		General	SC	ST	Total
1.	Arunachal Pradesh	-	-	6	6
2.	Assam	6	5	2	13
3.	Manipur	1	3	1	5
4.	Meghalaya	-	-	1	1
5.	Mizoram	-	-	1	1
6.	Nagaland	2	-	4	6
7.	Sikkim	1	-	1	2
8.	Tripura	-	1	-	1
9.	Bihar	18	5		23
10.	Jharkhand	17	2	6	25
11.	Orissa	49	5	5	59
12.	West Bengal	20	16		36
13.	Chandigarh	8	1		9
14.	Delhi	38	3	1	42
15.	Jammu & Kashmir	1	-	-	1
16.	Haryana	41	-	-	41
17.	Himachal Pradesh	1	1	-	2
18.	Punjab	46	6	-	52
19.	Rajasthan	69	12	8	89
20.	Uttar Pradesh	66	18	1	85
21.	Uttarakhand	9	1	2	12
22.	Chhattisgarh	27	2	3	32
23.	Goa	9	-	2	11
24.	Gujarat	8	-	2	10
25.	Madhya Pradesh	28	6	5	39
26.	Maharashtra	159	53	19	231
27.	Andhra Pradesh	13	4	1	18
28.	Karnataka	79	9	5	93
29.	Kerala	17	5	1	23
30.	Tamil Nadu	26	6		32
	Total	759	164	77	1000

Total Number of NTS Awardees on the Roll during the year (2008-2009)

Stage / Courses	No. of Awardees
Secondary and Senior Secondary Stage	
Class IX	1000
Class X	839
Class XI	1000
Class XII	892
Under Graduate	
Basic Science	66
Social Science	108
B.E./B.Tech.	1989
M.B.B.S.	569
L.L.B. (Integ. Law Course)	18
Post Graduate	
Basic Science	50
Social Science	5
ME/M Tech.	22
MD/MS	7
Management	5
Total	6570

Expenditure on NTS Scholarship Incurred during 2008-2009

Disbursement of Scholarship	Rs. 2,97,93,050/-
Conduct of NTS Examinations	Rs. 38,83,750/-
Total Expenditure	Rs. 3,36,76,800/-
Disbursement of Chacha Nehru Scholarship	Rs. 10,02,000/-

Major Contributions of the Faculty

Professor Avtar Singh, Head, pursued programmes in different areas related to examinations, measurement and testing. The National Means-cum-Merit Scheme of Govt. of India is also monitored and appropriate steps taken to streamline it. Nurturance programmes for 500 awardees for the year 2007-08 was organised at different institutes. Quarterly electronically transfer of scholarships directly to awardee's account has been worked out and implemented from this year. The agenda of Examination Reforms as envisaged in NCF-2005 is being pursued vigorously with State Education Boards. In this direction few programmes have been organised in the States of J&K, Chhattisgarh and Maharashtra. Further discussions were also held in the National Conference of Chairpersons from 3 to 5 November 2009 of NCERT, New Delhi. Another important area is the conduct of National Achievement Surveys. Preparation of Mid-terms reports and sharing the findings with states, MHRD and in JRMs has been an ongoing activity. Prof. Singh participated in the National Project Managers Meeting of PISA 2009 cycles at Frankfurt from 9 to 13 February 2009. He also

undertook a study tour to UK from 22 February to 1 March 2009 to workout training programme of NCERT faculty under Technical Cooperation Fund (TCF). He contributed three papers in National and International Conferences, the last one was organised by DFID Education Advisors Retreat at Chennai from 9 to 12 March 2009. He attended a three-week training programme at Educational Testing Service – Princeton (USA) from 25 March 2009 to 10 April 2009 in modern testing techniques.



Prof. Avtar Singh sharing the findings of National Achievement Surveys (NCERT) at ETS, Princeton, New Jersey (USA)

Professor Mamta Agrawal contributed in the development of the selection tests, Mental Ability Test and Scholastic Aptitude Test, and coordinated the activities of National Talent Search Scheme for Class VIII. She coordinated a meeting of state Liaison Officers to sort out their problems in the smooth conduct of the National Means-cum-Merit Scholarship Scheme for the Government of India for the award of one lakh scholarships; the activities of the Mid-term Achievement Survey at the end of Class VII/VIII and the research study A Qualitative Analysis of State Level Tests for National Talent Search Examination. She was a resource person for the capacity building programmes on Question Setting for the Boards of School Education, Maharashtra and Jharkhand. She represented NCERT in the Nurturance programme held at Chennai for the NTS awardees of the year 2008. She attended the capacity building programme under the technical cooperation fund for SSA at Educational Testing Service, Princeton, USA from 25 March 2009 to 10 April 2009.

Professor K.M. Gupta participated in the National Conference of Chair Persons of Board of School Education and provided leadership to finalise the recommendations. He was a resource person in the capacity building of key resource persons of Jharkhand State organised by Jharkhand Academic Council,

Ranchi; workshop on Capacity Building of Key Resource Persons of Arunachal Pradesh held at Itanagar and also in the training programme for persons from Board of School Education on Educational Evaluation. He coordinated a research study Low Achievement of SC Children at Upper Primary Stage: Teachers' Perception and Strategies and the meeting of the 4th National Resource Group for Sarva Shiksha Abhiyan. He contributed in finalising the Mathematics section of Source Book on Assessment Classes I - V. He also worked for and attended the 5th National Resource Group Meeting of Sarva Shiksha Abhiyan. He actively participated in the national workshop for teacher-educators on Towards a Compassionate and Healthy Society at Doon School, Dehradun. He delivered extension lecture on Evaluation in NCF-2005 at Academic Staff College of Aligarh Muslim University, Aligarh and on Innovations in Teacher Education at Institute of Professional Studies, Gwalior.

Dr. A. D. Tewari, Reader, coordinated the projects Study of Internal Assessment Practices in relation to Students Performance in Public Examinations at Secondary Stage; Achievement Survey at the End of Upper Primary State; National Conference of Chairpersons of Board of School Education and also associated with the programmes Midterm Achievement Survey at the End of Class VII/VIII, Qualitative Analysis of State Level Tests of NTS Examination; Training Programme for Person from Boards of School Education in Educational Evaluation; and Capacity Building Programme for State Resource Person of Jharkhand State on Educational Evaluation. He coordinated the National Conference of Chairpersons of Boards of School Education organised by the department. He chaired a technical session in the national seminar on Issues and Challenges in Teacher Education organised by Department of Education, NOIDA College of Physical Education. He was involved in organisation of capacity building programme on Examination Reforms in the context of NCF-2005 for Chhattisgarh State and training programme in Educational Evaluation for Academic Officers of State Education Boards. He was a panelist in a workshop for teachers and teacher educators of DIETs, SIEs and SCERTs of Hindi Speaking States on Systemic Reforms for Inclusion organised by the Department of Education for Groups with Special Needs. He attended 'The 119th Meeting of the Project Approval Board of Sarva Shiksha Abhiyan (SSA)' and 'Meeting on India's Participation in OECD Programme for International Students Assessment (PISA)' organised by the Department of School Education and Literacy, MHRD. He was associated in the evaluation of project works of Diploma Course in Early Childhood Care and Education (ECCE) of the Department of Elementary Education. He provided academic inputs in NCERT Source Book on Assessment for Class I-V in Mathematics. He participated in the three weeks capacity building exposure at: Educational Testing Service (ETS), Princeton, New Jersey, (USA) from 23 March 2009 to 10 April 2009 on National Assessment, Test Design and Psychometric Methods under Technical Cooperation Fund (TCF) Programme of the MHRD.

Dr. Santosh Kumar, Reader, coordinated a training programme in Educational Evaluation for State Boards of organised in two phases, from 13 to 23 October 2008 and 8 to 17 December 2008. He was involved as team member in Learning Achievement Surveys at the end of Class III, V and VII/VIII and in the finalisation of Class V report which was published by NCERT. He developed a draft report of Class III achievement survey (MAS) and also contributed in the finalisation of the brief report. He was associated with the research project A Study of Internal

Assessment Practices in relation to Students' Performance in Public Examination at Secondary Stage. He was a resource person in four training programmes organised by the department. He also participated in three extension activities of the department. Besides, he attended four training programmes organised under Technical Cooperation Fund under SSA by MHRD.

Dr. Veer Pal Singh, Reader, coordinated two research projects namely, A Study of Examination Stress among Secondary School Students and Identification of Intervention Strategies to Reduce Examination Stress among Secondary School Students. He also contributed as a team member in two research project viz., Mid-Term Achievement Survey at the End of Class III, and A Study of Internal Assessment Practices in relation to Students Performance in Public Examinations at Secondary Stage. He was a resource person in training programmes organised for capacity building of KRPs held at The Indian School, New Delhi, on 10-11 April 2008, Maharashtra Board of School Education, Pune from 3 to 7 September 2008 and Jharkhand Academic Council, Ranchi from 24 to 28 November 2008. He was also a resource person in capacity building programmes of KRPs in Education Evaluation organised at Chhattisgarh SCERT, Raipur, from 21 to 23 May 2008; SCERT Solan (H.P.) from 23 to 24 June 2008 and training programme for State Boards officers at NIE, New Delhi, from 13 to 23 October 2008 and 8 to 17 December 2008. He delivered a lecture on Evaluation, Assessment and Examination in light of NCF-2005 in an orientation programme organised for secondary stage Urdu teachers from 9 to 13 February 2009 at NIE, New Delhi. One student was awarded Ph. D. degree by Dr. B.R. Ambedkar University, Agra, under his guidance. He participated in national seminars organised by Department of Education, Lovely Professional University, Phagwara on 11 October 2008 and Council for Teacher Education at Integrated School of Education, Ghaziabad, on 15 November 2008 and presented papers on Examination Stress : Researches and their Utilities for Stakeholders' and Challenges of Preparing Competent Teacher Educators respectively. He attended a training programme on Educational Assessment Techniques organised by Educational Testing Service (ETS) at Princeton, New Jersey, U.S.A, from 23 March 2009 to 10 April 2009. He published two research papers Effect of Jurisprudential Inquiry Model of Teaching on Value Preferences of School Students, in *Journal of Community Guidance and Research*, March 2008, 25 (1), 3-33 and Effect of Jurisprudential Inquiry Model of Teaching on Verbal Ability of Ninth Graders, in *Perspectives in Education*, July 2008, 24 (3), 167 – 179. He also published a project report Examination Stress among Secondary School Students – A Research Study.

Dr. Virendra Pratap Singh, Reader, jointly published a research paper on Basic Facilities in Elementary Level Schools in Rural India: An Overview, in the *Journal of Indian Education*, Vol. 34(1): pp. 91-106. He contributed two chapters in developing the Sampling Techniques for Conducting Educational Surveys (Training Aid Material) for the DES&DP, NCERT, New Delhi. He contributed a chapter on Educational Management and Information System for the module on Educational Planning, Management and Evaluation, a training package for the DIET faculty, developed by PPMED, NCERT and delivered lecture on the same theme in the training programme organised at NIE, New Delhi, from 16 to 20 March 2009. He presented a paper Class of Unbiased Modified Ratio and Product Estimators for Finite Population Mean Using Coefficient of Variation of Auxiliary

Variable in Sample Surveys during the 62nd Annual Conference of Indian Society of Agricultural Statistics, New Delhi, held at Tirupati, (A.P.). He also presented a joint paper on Rural Elementary School Education in India: A Gender Based Statistical Profile in the National Seminar on School Education in Rural India organised by DES&DP at NIE, New Delhi. He coordinated two training programmes to develop the capacity building of State Government officers and staff involved with statistics in school education sub-sector for the North-East Zone States at the SCERT Aizwal; and for East Zone States at RIE, Bhubaneswar.

Dr. Indrani Bhaduri, Reader, coordinated two programmes Implementation of the National Talent Search Scheme and Development of a Model Culture Fair Mental Ability Test for the National Talent Search Examination. She organised a five-day meet for moderation of NTS tests and adaptation of tests for the physically challenged group. She also coordinated with the state liaison officers, associated directors, centre superintendents and observers for the smooth conduct of the state level examination and the national level examination for the talent search. She also attended a training programme conducted at ETS, Princeton, New Jersey, USA, from 23 March to 10 April 2009.

Dr. K. Chandrasekhar, Senior Lecturer, coordinated a research project A Qualitative Analysis of State Level Tests of National Talent Search Examination and was involved as a team member in research projects Mid-term Achievement Survey at the End of Class VII/VIII, A Study of Examination Stress among Secondary School Students and Identification of Intervention Strategies to reduce Examination Stress among Secondary School Students. He was a resource person in the training programmes: Capacity Building for Indian School Teachers in Question Setting held at New Delhi; Capacity Building of Chhattisgarh SCERT Teachers in Question Setting at Raipur and Orientation Programme for Jharkhand SCERT on National Curriculum Framework-2005 at Ranchi. He co-coordinated two five-day training programmes in Educational Evaluation for State Boards Academic Officers at NIE, New Delhi; a five-day training programme on Capacity Building of Key Resource Persons of Jharkhand Academic Council in Question Setting at Ranchi and two five-day workshops for Analysis of State Level NTS Scholastic Aptitude Tests and Mental Ability Tests at NIE, New Delhi. He delivered a lecture on Learning Difficulties in Social Science, Causes and Remediation in a four-day orientation course for TGTs of Jawahar Navodaya Vidyalaya from Luknow and Jaipur Region held at Navodaya Leadership Institute, G.B.Nagar, Uttar Pradesh. He also delivered a lecture on Exemplar Questions in different subjects in the National Conference of Chairpersons of Boards of School Education held at NIE, New Delhi. He was coordinator of a workshop on Capacity Building of Key Resource Persons of West Bengal Board of Secondary Education on Question Setting. He attended a training programme on Educational Assessment Techniques organised by Educational Testing Service (ETS) at Princeton, New Jersey, USA, from 23 March 2009 to 10 April 2009. He published the research paper Attitudes of Administrators of Vocational Education Institutions in Relation to Certain Personal and Demographic Variables, in *Indian Educational Review*, 45(1), 2009, pp: 56-68, NCERT, New Delhi.

Dr. Y. Sreekanth, Senior Lecturer, was resource person in a five-day state-level workshop held under SSA at SCERT Jammu & Kashmir from 11 to 15 June 2008 held at Srinagar. He was resource person in the capacity building of

KRPs of Maharashtra Board of Secondary and Higher Secondary education in item writing held at Pune from 3 to 7 October 2008. He was resource Person in the programme on Evaluation organised by Uttarakhand Secondary Education Board held at Ramnagar on 17-18 November 2008. He delivered a lecture on Preparing Quality Questions in the training programme in Educational Evaluation for State Boards Academic Officers held at NIE, New Delhi. He participated in a three-week training programme held at ETS Princeton from 23 March 2009 to 10 April 2009. He was looking after the disbursement of scholarships to Awardees of National Talent Search Scheme. He co-ordinated the five nurturance programmes held at RIE Mysore and Bhubaneswar, NIT Jalandhar, IIT Chennai and University of Pune. He published a book *Learning Experiences and Random Thoughts* published by Academic Excellence, Delhi.