

Minutes of the 2nd Meeting of the MHRD Committee for “Validation of Normalization of Marks” held on November 30, 2012 from 11 AM onwards in the office of Chairman CBSE, New Delhi.

The Minutes of the second meeting of the Constitution of Committee held on November 30, 2012 from 11 AM onwards in the office of Chairman, 17, ShikshaSadan, ITO, Delhi under the Chairmanship of Dr. S.K. Joshi, Chairman. The following were present in the meeting:-

1. Dr. S.K. Joshi, National Physical Lab, New Delhi -Chairman
2. Prof. I.K. Bhat, Director, MNIT Jaipur
3. Prof. S. Sundarrajan, Director, NIT Trichy
4. Prof. S.K. Sarangi, Director, NIT Rourkela
5. Shri M.C. Sharma, Controller of Exam. CBSE, Delhi
6. Prof. KanwarSain, Convenor, Rtd. Prof.& Head, University of Delhi
7. Prof. Neeraj Mishra, Dept.of Mathematics & Statistics,IIT Kanpur, UP
8. Prof. S. Rajoo Krishnan, Former Joint CommissionerKerala Entrance Examinations
9. Prof. DebasisSengupta, ISI Kolkata
10. Dr.Hukum Chandra, Senior Scientist, IASRI, N.D.
11. Shri Raj Bir Singh, Joint Secretary, JEE(Main)
12. Smt. I.M. Catherine, Joint Secretary(IT),CBSE Delhi
13. Shri B.M. Gupta, Advisor, CBSE
14. Prof. S. Sancheti, Director, NIT Delhi -Member Secretary

Dr. S.K. Joshi, Chairman and Prof. SandeepSancheti, Member Secretary of the committee welcomed all the members of the committee and in particular the members of the expert committee constituted by CBSE. After detailed review of both the earlier meetings of the committees constituted by MHRD and constituted by CBSE, it was agreed to work up on a possible approach which is based on EquiPercentile (EP) method. Accordingly the proposal number “4”, as proposed by Prof. J. Tognolini, was chosen for further consideration. It was also agreed to evaluate the efficacy of the method and undertake a process of validation to ensure that selected approach would work under extreme testing conditions. To do so following parameters/details were chosen for further action:-

1. AIEEE result of the given year (AIEEE-2012 for initial test) to be taken as the reference model for generation of Equipercetile (EP) marks.
2. The EP (Formula-IV) to be implemented using following two approaches:-

- (i) Reference set to be entire All India AIEEE/JEE(Main) data
 - (ii) Reference set to be only respective State AIEEE/JEE(Main) data
3. Wherever required interpolation to be used to generate data within the sub ranges of marks/percentiles under consideration.
 4. CBSE to provide standard data of 4-5 States as well as that of CBSE for all India results for evaluation of the selected approach. Such data should be consistent and generally have marks of all the five subjects (PCM, one language and one elective).

To ensure the correctness of evaluation, it was agreed that the following FOUR groups can be assigned the independent task for evaluation of the short listed approach:-

- 1) CBSE expert group led by Prof. DebasisSengupta, ISI Kolkata
- 2) CBSEs internal team led by Dr. B.M. Gupta, CBSE
- 3) Representatives from the MHRD team led by Dr.DayaSagar, ISI Bangalore
- 4) Team led by Prof. J. Tognolini, Australia

The above teams were requested to check the evaluation in form of following aspects:-

- (i) Mapping of Board Marks on unique distributions/patterns
- (ii) Normalisation of entire Board data
- (iii) Evaluation of changes in marks / merit
- (iv) Co-relation between original and normalised data/results

It was felt that at least 3 weeks would be required for above evaluation. However keeping in view the importance of time, it was decided to convene the 3rd meeting on 19th December 2012. All the members in the team were requested to undertake the tasks assigned to them on priority.

The meeting ended with a vote of thanks to the Chair.

(Prof. SandeepSancheti)
Member Secretary