

Minutes of the 3rd Meeting of the MHRD Committee for “Validation of Normalization of Marks” held on December 28, 2012 from 11 AM onwards in the office of Chairman CBSE, New Delhi.

The Minutes of the third meeting of the Constitution of Committee held on December 28, 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. Shri B.M. Gupta, Advisor, CBSE
5. Prof. KanwarSain, Convenor, Rtd. Prof.& Head, University of Delhi
6. Prof. Abhay G. Bhatt, Indian Statistical Institute, New Delhi
7. Prof. DebasisSengupta, ISI Kolkata
8. Shri Raj Bir Singh, Joint Secretary, JEE(Main), CBSE, Delhi
9. Smt. I.M. Catherine, Joint Secretary(IT),CBSE, Delhi
10. Prof. S. Sancheti, Director, NIT Delhi -Member Secretary

The Chairman and Member Secretary of the committee welcomed all the members present. After recap of the previous decisions, the members were informed that the 3rd meeting originally scheduled on December 19, 2012 could not be organised as most of the teams working on normalisation and validation of data were desirous of more time for proper evaluation. This was mainly due to experts being busy in End Semester examinations as well as consistency of data sets provided as test data. Accordingly the meeting was re-scheduled for today (28th December, 2012). All the members present once again discussed the concept of EquiPercentile method and its pros and cons. It was once again and unanimously agreed that this is the best possible method for normalisation of Board Marks currently under consideration for JEE 2013 (Main) result preparation.

The members of the teams who had undertaken the task of assessing the EP method in the context of data sets provided were requested to share their findings.

Team led by Dr. Debasis Sen Gupta and Dr. A.G. Bhatt in their findings identified that the EP method with All India data set would be the best under the given circumstances as this would map all data on a single distribution / pattern irrespective of a State being small or big. Prof. Neeraj Gupta also communicated similar findings but made a suggestion that the results of only those who appeared in JEE(Main) may be considered while normalisation as against the total board students. After detailed deliberations, it was decided that it may not be practical to use selective data of students from boards who appeared in JEE(Main). Dr. Daya Sagar communicated his findings of four States indicating the usefulness of EqiPercentile method. The team led by Dr. B.M. Gupta from CBSE did undertake an extensive analysis of the available data/results from four different States and CBSE itself. In addition to normalisation of marks they also undertook study on ranks and established co-relation between original data and the modified (normalised data). The results were found to be very encouraging as it exhibited consistency and good co-relations.

Dr. J. Tognolini was not available as he was outside the country and he desired to have more time for data analysis. It was decided to call him in the last meeting of the committee likely to be scheduled during end of January 2013.

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The members appreciated the efforts put in by all experts from statistics domains. It was concluded that the present approach of EqiPercentile marks would be stable and can be implemented for all the boards simultaneously. However, while assessing some other results presented by the teams it was noted that in certain cases either the full data set was not chosen or result were compiled in a certain fashion. Keeping this in view and also once again ensure the correctness of approach, it was agreed to undertake one more iteration of evaluation (fine-tuning) to be discussed in the next meeting.

In view of the need of submitting the report to the Ministry, the members also discussed likely structure of the report. Some of the members were requested to contribute specific details in the report preparation. Dr.SandeepSancheti, Member Secretary was requested to coordinate the report preparation work such that the report can be submitted by the end of February 2013. It was decided to meet once again in the last week of January 2013 with final set of results and a potential draft of the report.

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

(Prof. SandeepSancheti)
Member Secretary