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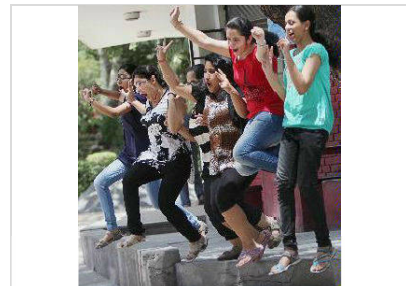
## Normalization puts premium on Board results, makes JEE (Main) redundant

Akshaya Mukul, TNN May 30, 2013, 10:59PM IST

**Tags:** National Institutes of Technology | JEE (Main) | cbse | Board results

NEW DELHI: The normalization process worked out for admission to National Institutes of Technology (NITs) and other central government technical educational institutions is turning out to be more complicated and cumbersome than what the CBSE had claimed.

The way normalization is being worked out it could result in a student with high score in JEE (Main) and not so low percentage in Class XII (say 90%) could have a rank much lower than a friend who scored less in JEE (Main) but had a higher percentage in the Board results.



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For admission, it was decided to use the JEE (Main) performance and the normalized Board performance in the 60:40 ratio. But after the JEE (Main) results were out, the JEE Interface Group has come up with the novel normalization formula, which is as follows:  $C = 0.6 \times A_o + 0.4 \times B_{final}$ , where (Ao) component is aggregate marks obtained by each student in JEE (Main) and Bfinal component corresponds to the Board percentile. The final rank of the student in the JEE (Main) will be decided by C.

The normalization process decided by the Joint Entrance Examination (JEE) Interface Group for the Class XII marks component is as follows: 50% of Board marks be normalized by equating percentile among different Boards and anchoring them to All India JEE (Main) percentiles, and 50% be normalized by equating each Board's percentile with JEE (Main) percentile marks of respective Boards.

Many students and parents are pointing out that the normalization system is not working out. The moot point is if a student scores 95%, just 2% more than his friend who gets 93% in the Board it would mean he has scored 10 extra marks (CBSE: 5 subjects each for maximum marks 100). But this two per cent marks will be resulting into a big difference in JEE marks mapping, which won't be uniformly distributed.

For instance, a student Tom gets first rank in JEE (Main). He scored 345/360. Tom also scored 90% in CBSE class XII examination. Let's make a fair assumption that these marks will probably correspond to about 93 percentile in the boards. Now, for the calculation of 40% equivalent from Boards: If there are 12 lakh people giving JEE (Main), this person will be allotted marks equivalent to 93 percentile of the JEE (Main) ranks. The official cut-off declared for JEE (Advanced) is 113 with a rank of 75,000 for general category. Probably this year 93 percentile in JEE (Main) would correspond to about 84,000 rank (7% of 12 lakh applicants) and corresponding marks would be about 113 only.

So Tom will get B final component (B1). JEE (Main) aggregate marks corresponding to

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percentile at the All India level) + B2: (JEE-Main aggregate marks corresponding to percentile among the set of aggregate scores obtained in the JEE (Main) by the students of that board) in the formula approximately as  $0.4 \times 113 = 45.2$  marks. (This is on the assumption that B1 and B2 components remain almost same in the case of CBSE). So total marks of Tom will be  $C = 0.6 \times 345 + 0.4 \times 110 = 207 + 45.2 = 262.2$

Now if a student Peter gets 200 marks in JEE (Main) and 97.5% in boards then probably he is at 99.98 percentile and corresponding to this he will get 330 marks in JEE (Main). (If we map 99.98 percentile to JEE main percentile then marks for B-final component would be 330. His B final component will be  $0.4 \times 330 = 132$ . So total marks of Peter will be  $C = 0.6 \times 200 + 0.4 \times 330 = 120 + 132 = 252$ .

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The error is self-evident. Tom with high JEE (Main) score but slightly less percentage in CBSE gets only 45.2 marks in the Board component whereas Peter with 200 marks in JEE (Main) but 97.5% in CBSE Board gets 132 in the Board component, a massive difference of 86.8 marks. Someone gets 90% in CBSE Board and ranks first in JEE (Main) might not even figure in top final ranking of NITs and other central government educational institutions. "This is just stupid," a parent says.

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**Readers' opinions (106)**Sort by: [Newest](#) | [Oldest](#)**Balaraman Raju** (Chennai, Tamil Nadu)  
04 Jul, 2013 03:32 PM

Simple arithmetic which will benefit all boards for entering into IIT %26 NIT. For admission to any of the above the candidate should have passed the 12th class examination of 10 2 system from a recognized Central or State board or its equivalent with Physics, Chemistry and Mathematics. Further, the candidate should have obtained a minimum of 75% aggregate marks in Physics, Chemistry and Mathematics subjects in 12th class examination, at least 60% marks in each of the Physics, Chemistry, and Mathematics subjects. However, admissions will be made only on his/her merit position based on the score obtained in JEE MAINS. for JEE ADV the top 1,50,000 candidates (including all categories) who qualify, in JEE (Main) – 2013, and are eligible to write JEE (Advanced)

**Gaurav Barak** (Jhajjar)  
03 Jul, 2013 05:19 PM

the much of a basic problem lies here that if a person somehow doesnt get good marks in boards, he then has to suffer in jee mains too due to this which is unfair... there were no disputes till date in the previous pattern what they have done is just made it worse... this is completely ridiculous step and doesnt have any kind of significant valu... completely useless

**Mukul Arora** (Bahadurgarh)  
16 Jun, 2013 01:50 PM

this normalisation procedure is completely ruining the feeling of competition at national level. It is a matter of our career and this is just creating havoc about the rank in my mind. Please if sm1 knws n can help to get it changed cntct. Me!

**Arun Prasad** (Chennai, Tamil Nadu) replies to Mukul Arora  
16 Jun, 2013 08:36 PM

Also Google jee normalisation petition and sign the petition in the website change . org and refer many people to sign the same.if more people sign then we can get results

**Arun Prasad** (Chennai, Tamil Nadu) replies to Mukul Arora  
16 Jun, 2013 08:34 PM

Well write or email to vineet joshi the contact details are in jee main website

**Yashpal** (Chandigarh)  
14 Jun, 2013 04:09 PM

Variation in jee marks on some points is very sharp like 93% to 96% of boards marks, This type of things can be avoided by 1. Considering only marks of 3 best papers. 2. Using average of all jee marks above the candidate percentile. It will eliminate sharp gaps between jee main marks due to little percentile difference .

**jogesh** (hyderabad)  
13 Jun, 2013 06:32 PM

I think the simple normalization formula would have worked out best, ie if in a certain board the maximum marks attained by a student in say maths is  $xy < 100$  then it should be normalized to 100. same for all five subjects, the the calculated percentage should me used to calculate the 40% of highest marks in jee main. example board a highest marks in maths is 92 then his marks after normalization will be.  $92 \times 100 / 92$  ie 100, same board maths 78 will be  $78 \times 100 / 92 = 84.7$ , so a board where studentds score 100 the marks remain same. Now for part two the students normalised marks should be used to calculate the percentage. say final percentage after normalisation is 90% the  $0.9 \times 345$  (highest mains score) = 310.5,  $40\% \Rightarrow 0.4 \times 310.5 = 124.2$ . alternative is use the percentile of the board as percentage for mains score, if 90% equates to say 86th percentile then use  $0.86 \times 345 = 296.7$ ,  $40\% \Rightarrow 0.4 \times 296.7 = 118.68$ . now say tom gets 345 in mains and 90% his mains score will be  $345 \times 0.6 = 207$  say 90% equates to 84 percentile.  $0.84 \times 345 = 289.8$ ,  $40\%$  of that is  $115.92$  total is  $115.92 + 207 = 322.92$  another student gets 200 in mains and 97% mains score  $200 \times 0.6 = 120$  say 97% equates to 100th percentile then he gets 345 ,  $40\%$  of that is  $138$  total score is  $120 + 138 = 258$ . further board marks percentile and jee marks percentile cannot be compared as the curves are totally different percentiles can be compared only when the data curves are similar. CBSE please do something

**Patel** (Ahmedabad.) replies to jogesh  
14 Jun, 2013 12:21 PM

As the JEE percentile are not yet declared by CBSE, how you can say that the curve of JEE percentile and Board percentile are totally different and cannot be compare ?

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