



# GRADUATE APTITUDE TEST IN ENGINEERING 2024

अभियांत्रिकी स्नातक अभिक्षमता परीक्षा २०२४

ORGANISING INSTITUTE: INDIAN INSTITUTE OF SCIENCE, BENGALURU

## SCORE CARD

Name of the Candidate

**SHAMBHAVI SINGH**

Name of the Parent/Guardian

**VIRINDER SINGH BHAU**

Registration No.

**CS24S58107235**

Test Paper

**Computer Science and Information Technology (CS)**

Date of Examination

**February 10, 2024**

GATE Score

**488**

\*Marks out of 100

**40.21**

All India Rank (AIR)  
in the test paper

**4880**

**Qualifying Marks**

General

**27.6**

EWS/OBC-NCL

**24.8**

SC/ST/PwD

**18.4**

Number of candidates

**123967**

appeared for the test paper



\*Normalized marks across two sessions of the test paper

Prof. Chandra Sekhar Seelamantula  
Organising Chairperson, GATE 2024  
On behalf of NCB-GATE  
Ministry of Education (MoE)



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A candidate is considered **qualified** if the marks secured are greater than or equal to the qualifying marks mentioned for the category, for which a valid category certificate, if applicable, must be produced along with this Score Card.

This Score Card is valid  
up to 31<sup>st</sup> March 2027.

## GATE SCORE COMPUTATION

The GATE 2024 score is calculated using the formula

$$\text{GATE Score} = S_q + (S_t - S_q) \frac{(M - M_q)}{(M_t - M_q)}$$

where

M is the normalised marks obtained by the candidate in the paper mentioned on the GATE 2024 Score Card

$M_q$  is the qualifying marks for general category candidates in the paper

$M_t$  is the mean of marks of top 0.1% or top 10 (whichever is larger) of all the candidates who appeared for the test paper (i.e., including all sessions)

$S_q = 350$ , is the score assigned to  $M_q$

$S_t = 900$ , is the score assigned to  $M_t$

$M_q$  is 25 marks (out of 100) or  $\mu + \sigma$ , whichever is greater. Here  $\mu$  is the mean and  $\sigma$  is the standard deviation of marks of all the candidates who appeared for the test paper.



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## SCORE CARD

### COMPUTATION OF NORMALISED MARKS

Computer Science and Information Technology (CS) and Civil Engineering (CE) were conducted in two sessions in GATE 2024. For such multisession papers, a suitable normalisation is applied to take into account any variation in the difficulty levels of the question papers across sessions. The normalisation is done based on the assumption that, in multisession GATE papers, the distribution of the abilities of the candidates is nearly the same across sessions. This assumption is reasonable because the number of candidates appearing for the test papers is large, the number of candidates allotted to the sessions are comparable, and the procedure for allocation of candidates to the sessions is random.

The normalised marks of the  $j^{\text{th}}$  candidate in the  $i^{\text{th}}$  session, denoted by  $\hat{M}_{ij}$ , are computed as

$$\hat{M}_{ij} = \frac{\bar{M}_t^g - M_q^g}{\bar{M}_{ti} - M_{iq}} (M_{ij} - M_{iq}) + M_q^g$$

where

$M_{ij}$  is the actual marks obtained by the  $j^{\text{th}}$  candidate in the  $i^{\text{th}}$  session

$\bar{M}_t^g$  is the average marks of the top 0.1% of the candidates considering all sessions

$M_q^g$  is the sum of mean and standard deviation of marks of the candidates in the paper considering all sessions

$\bar{M}_{ti}$  is the average marks of the top 0.1% of the candidates in the  $i^{\text{th}}$  session and

$M_{iq}$  is the sum of the mean and standard deviation of marks in the  $i^{\text{th}}$  session.

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Qualifying in GATE 2024 does not guarantee admission to a postgraduate program or scholarship/financial assistance. Admitting institutes may conduct additional tests or interviews for final selection of candidates.

Graduate Aptitude Test in Engineering (GATE) 2024 was organised by Indian Institute of Science, Bengaluru, on behalf of National Coordination Board (NCB) - GATE for the Department of Higher Education, Ministry of Education (MoE), Government of India.