

ROLL NO. 46RE157

CERT NO. A109-115071

SERIAL NO. N 237493

# Board of Secondary Education, Orissa



## HIGH SCHOOL CERTIFICATE EXAMINATION (Regular/Ex-Regular)

I certify that **SAROU KUMAR DAS** **Son/Daughter**

of **SUKANTI DAS** (Mother) and **SARAT KUMAR DAS** (Father)

born on **30TH JUNE 19 NINETYFOUR** passed the High School

**Certificate Examination held in the month of MARCH 2009**

from **SIDHESWAR HIGH SCHOOL, GHADIAMAL**

and was placed in the **FIRST** **Division.**

### SUBJECTS OF EXAMINATION

- 1. FL- ORIYA
- 2. SL- ENGLISH
- 3. TL- BANASKRIT
- WORK EXPERIENCE **A**
- 4. MATHEMATICS (MTH)
- 5. SCIENCE (SCP & SCL)
- 6. SOCIAL SCIENCE (SSC & SSH)
- HEALTH & PHYSICAL EDUCATION **A**



THE 24TH DECEMBER, 2010

*[Signature]*  
Headmaster  
GHADIAMAL

*[Signature]*  
Secretary

*Saraj Kumar Das*  
*15/11/2012*



**BOARD OF SECONDARY EDUCATION, ORISSA**

REGULAR MARKS

**PROVISIONAL CERTIFICATE CUM MEMORANDUM OF MARKS**

SERIAL NO 0911065864

POLL NO 46FE157

ENROL NO

ACS017003807

THIS IS TO CERTIFY THAT

**SAROU KUMAR DAS**

SON OF

**SUKANTI DAS**

(FATHER)

**SARAT KUMAR DAS**

BORN ON

**30/06/1994**

APPEARED AT THE ANNUAL

HIGH SCHOOL CERTIFICATE EXAMINATION HELD IN THE MONTH OF **MARCH, 2009**

FROM **SIDHESWAR HIGH SCHOOL, AT/PO GHADIAMAL**

STATEMENTS OF EXAMINATION MARKS SECURED AND RESULT

FIRST LANGUAGE	SECOND LANGUAGE		THIRD LANGUAGE		MATHS		SCIENCE		SOCIAL SCIENCE			
	CODE	MARKS	CODE	MARKS	MTG	SCP	SQL	TOTAL	SSG	SSH	TOTAL	
<b>FLD</b>	<b>68</b>	<b>SLE</b>	<b>59</b>	<b>TLS</b>	<b>90</b>	<b>64</b>	<b>46</b>	<b>43</b>	<b>89</b>	<b>29</b>	<b>44</b>	<b>73</b>

REQUIREMENTS	IN WORDS	RESULT	INTERNAL ASSESSMENT GRADE		
			WE	AE	HE
<b>463</b>	<b>FOUR SIX THREE</b>	<b>1st</b>	<b>A</b>	<b>A</b>	<b>A</b>

DATE OF PUBLICATION OF RESULT **30/06/2009**

DATE OF ISSUE

  
 HEAD OF HEADMASTER  
**SIDHESWAR HIGH SCHOOL**  
**GHADIAMAL**

  
 DEPUTY SECRETARY  
 CONTROLLER OF EXAMINATION

  
**Saraj Kumar Das**  
 15/11/2022

ROLL NO. 31500270  
REGN NO. 162699/2009

SERIAL NO. 052438

CER. SNO. 20111051793

**COUNCIL OF HIGHER SECONDARY EDUCATION, ORISSA**  
**BHUBANESWAR**



**HIGHER SECONDARY EXAMINATION CERTIFICATE**

I Certify that **SAROJ KUMAR DAS**  
Son/Daughter of Smt. **SUKANTI DAS**  
& Sri **SARAT KUMAR DAS**  
of **KENDRAPARA AUTONOMOUS COLLEGE, KENDRAPARA**  
has passed the Higher Secondary Examination in **SCIENCE**  
field in the month of **MARCH 2011** and is placed in the **FIRST** Division.

**SUBJECTS OF EXAMINATION**

COMPULSORY	ENGLISH HIL DRIPA
ELECTIVES	PHYSICS CHEMISTRY MATHS BIOLOGY
ENVIRONMENTAL EDUCATION	A
YDPA = B	



DATE

COMPAREH

*[Signature]*  
HEAD OF THE  
INSTITUTION

*[Signature]*  
J. K. Mahapatra  
SECRETARY

30-MAY-2011

*[Signature]*  
Saroj Kumar Das  
15/11/2009



SERIAL NO. 053802  
11051743

# COUNCIL OF HIGHER SECONDARY EDUCATION, ORISSA BHUBANESWAR



## MEMORANDUM OF MARKS HIGHER SECONDARY EXAMINATION

THIS IS TO CERTIFY THAT **SAROJ KUMAR DAS**  
SON/DAUGHTER OF **SARAT KUMAR DAS/SUKANTI DAS**  
OF **KENDRAPARA AUTONOMOUS COLLEGE, KENDRAPARA** HAS PASSED  
THE **ANNUAL EXAM 2011** AND IS PLACED IN **FIRST** DIVISION

THE SUBJECTS IN WHICH THE CANDIDATE WAS EXAMINED AND MARKS OBTAINED ARE AS UNDER:

ROLL NO 31500270	REGN. NO 162699709	STREAM SCIENCE (REGULAR)
SUBJECTS	MAX. MARKS	MARKS OBTAINED
ENGLISH	100	38 ZERO THREE EIGHT
MIL ORIYA	100	75 ZERO SEVEN FIVE
PHYSICS	70	46 ZERO FOUR SIX
PHYSICS (PRAC)	30	29 ZERO TWO NINE
CHEMISTRY	70	52 ZERO FIVE TWO
CHEMISTRY (PRAC)	30	27 ZERO TWO SEVEN
MATHS	100	53 ZERO FIVE THREE
BOTANY	35	30 ZERO THREE ZERO
BOTANY (PRAC)	15	13 ZERO ONE THREE
ZOOLOGY	35	20 ZERO TWO ZERO
ZOOLOGY (PRAC)	15	11 ZERO ONE ONE
ENVIRONMENTAL EDUCATION = A YOGA = A		
GRAND TOTAL		IN FIGURES 394
IN WORDS ( THREE NINE FOUR )		
PASS MARKS	DIVISION	
- Theory 30%	- First 60%	
- Practicals 40%	- Second 50%	
- Aggregate 35%	- Third 35%	
<i>[Signature]</i> HEAD OF INSTITUTION		<i>[Signature]</i> CONTROLLER OF EXAMINATIONS
DATE OF PUBLICATION 30-MAY-2011		

*Saroj Kumar Das*  
5/11/2022

Sl. No. 11PHYS0047

# KENDRAPARA AUTONOMOUS COLLEGE



KENDRAPARA - 754211 ORISSA  
AFFILIATED TO UTKAL UNIVERSITY

## PROVISIONAL CERTIFICATE

This is to certify that **SAROJ KUMAR DAS**  
bearing Roll No. BS11-124 Regd. No. 1102010740010097  
has passed the Bachelor of Science (Three year Degree Course)  
Examination 2014 with First Class Honours with Distinction

## SUBJECTS OF EXAMINATION

Compulsory	ISC, IT, ENG, ES, ODIA
Honours	PHYSICS
Major Elective	MATHEMATICS
Minor Elective	BIOLOGY
Pass	CHEMISTRY

  
PRINCIPAL

  
Saroj Kumar Das  
15/11/2022

  
CONTROLLER OF EXAMINATIONS



# KENDRAPARA AUTONOMOUS COLLEGE

SL. No.

11PHYS0096

Affiliated to Utkal University

THREE YEARS DEGREE EXAMINATION,

2014

MARK SHEET

Name : SAROJ KUMAR DAS

Stream : Science

Roll No. : BS11-124

Honours : Physics

Reg. No. : 1102010740010097

Subject & Paper	FM			PM			Int.	Sem			Total
	FM	PM	PM	FM	PM	PM		Int.	Sem	Total	
<b>Mark Secured</b>											
<b>FIRST SEMESTER</b>											
Compulsory	CompEng	50	15	8	19	27					27
	Odia	50	15	8	27	35					35
Honours	Phy I	75	23	13	27	40					40
	Pr1	25	10	5	19	24					24
Pass	Chem I	75	23	12	39	51					51
	Pr-1	25	10	4	18	22					22
	Total :					199					199
<b>SECOND SEMESTER</b>											
Honours	Phy II	75	23	13	57	70					70
	Pr-2	25	10	4	19	23					23
Major Elective	Math I	100	30	20	51	71					71
Pass	Chem II	75	23	15	42	57					57
	Pr-2	25	10	4	17	21					21
	Total :					242					242
<b>THIRD SEMESTER</b>											
Honours	Phy III	75	23	15	54	69					69
	Pr-3	25	10	4	18	22					22
Major Elective	Math II	100	30	18	56	74					74
Pass	Chem III	75	23	14	48	62					62
	Pr-3	25	10	4	18	22					22
	Total :					249					249
<b>FOURTH SEMESTER</b>											
Compulsory	CompES	50	15	9	32	41					41
	IT	50	15	10	29	39					39
Honours	Phy IV	75	23	14	35	49					49
	Pr-4	25	10	4	19	23					23
Pass	Chem IV	75	23	15	50	65					65
	Pr-4	25	10	4	18	22					22
	Total :					239					239
<b>FIFTH SEMESTER</b>											
Honours	Phy V	75	23	12	50	62					62
	Pr5	25	10	10	35	45					45
Minor Elective	Bio Biol	100	30	17	61	78					78
	Total :					249					249
<b>SIXTH SEMESTER</b>											
Compulsory	Comp ISC	100	30	18	60	78					78
Honours	Phy VII	60	18	18	38	38					38
	VIII	60	18	18	52	52					52
	Pr6	40	16	16	38	38					38
	Proj	30	12	12	28	28					28
	Semr	10	4	4	9	9					9
	Total :					243					243

Compulsory: 220

Honours: 656

Major Elective: 145

Minor Elective: 78

Pass: 322

RESULT : First Class Honours with Distinction

MAXIMUM TOTAL : 1800

GRAND TOTAL : 1421

One Thousand Four Hundred Twenty-One

Principal

Saroj Kumar Das

15/11/2014

CONTROLLER OF EXAMINATIONS



# Fakir Mohan University



Issue No.: 167

0154460

Roll No.: 121012M2144004

## DIPLOMA FOR MASTER OF SCIENCE

## ଅଧ୍ୟ-ଶ୍ଚାତକ ବିଜ୍ଞାନ ଉପାଧି ପତ୍ର

This is to certify that **SAROU KUMAR DAS**

୨୦୧୭ ମସିହା ଅକ୍ଟୋବର ମାସରେ

of **DEPT. OF APPLIED PHYSICS AND BALLISTICS**

ପଦ୍ଧତି ବିଜ୍ଞାନ ଅଧ୍ୟ-ଶ୍ଚାତକ ବିଜ୍ଞାନ ଉପାଧି ପ୍ରାପ୍ତ

has passed the Examination of 2016 held in the month of **APRIL**

ପ୍ରୟୋଗଗତ ପଦ୍ଧତି ବିଜ୍ଞାନ ଓ ଉପକ୍ରମଣ ବିଭାଗ

2016 in **MASTER OF SCIENCE IN PHYSICS**

ପରୀକ୍ଷା କ୍ରମେ ପାସ

and awarded **FIRST CLASS** for his degree admitted to the degree

ଅତ୍ୟ ଉଚ୍ଚ ଉପାଧି ପ୍ରାପ୍ତ ହେଇ ।।

Cumulative Grade Point Average (CGPA) : **8.4**

ଉପକ୍ରମଣ କ୍ରମାଙ୍କନ ପୋଷାକ : ୮.୪

Percentage of Marks (%) : **84.00**

ଶତକଡ଼ା ମାର୍କସଂଖ୍ୟା : ୮୪.୦୦

**SPECIAL PAPER**  
ELECTRONICS

ବିଶେଷ ପତ୍ର  
ଇଲେକ୍ଟ୍ରୋନିକ୍ସ

Fakir Mohan University  
Vyasa Vihar, Balasore, Odisha



ପଠକ ଶାଖା ବିଭାଗୀୟ  
ବ୍ୟାସ ବିହାର, ବାଲସୋର, ଓଡ଼ିଶା

The **13th January, 2017**

Vice-Chancellor

15/11/2017

ଓ.ଏମ୍/୦୧/୨୦୧୭ ଡିଏ



# FAKIR MOHAN UNIVERSITY

## PROVISIONAL CERTIFICATE-CUM-GRADE SHEET

This is to certify that ..... SAROJ KUMAR DAS .....  
 bearing Roll No. .... 12101FM144004 ..... and Registration No. .... 01975/14 ..... passed the examination  
 for the degree of MASTER OF ..... SCIENCE IN PHYSICS ..... 20<sup>16</sup> .....  
 with special paper in ..... ELECTRONICS .....  
 was placed in ..... FIRST ..... class.

FOURTH SEMESTER			
Course No.	Title of the Course	Credit Hour	Grade Point
ELECTRONICS			
APAB-401B	ELECTRICAL CIRCUIT AND CONTROL	04	8.4
APAB-402B	OPTOELECTRONICS & OPTICAL COMMUNICATION	04	8.0
APAB-403B	PULSE AND DIGITAL CIRCUIT	04	8.2
APAB-404B	ADVANCE ELECTRONICS PRACTICAL	04	8.8
APAB-405B	PROJECT AND GRAND VIVA	08	9.0
Total Grade Point		24	205.60
Grade Point Average			8.57

*The grade secured by the candidate in all the semester examinations are as follows.*

Semester	Examination Held in	Credit Hours	Grade Point	Grade Point Avg.
FIRST SEMESTER	DECEMBER, 2014	24	197.60	8.23
SECOND SEMESTER	APRIL, 2015	24	200.00	8.33
THIRD SEMESTER	DECEMBER, 2015	24	206.40	8.60
FOURTH SEMESTER	APRIL, 2016	24	205.60	8.57
Overall Grade Point Average				8.4
Award of Class : FIRST		Total Marks Secured in Percentage		84.00

Conversion of OGPA to percentage of marks :  $OGPA \times 10$

**AWARD OF CLASS**

- First Class : OGPA 6.0 or more.
- Second Class : OGPA 5.0 or more but less than 6.0.
- Third Class : OGPA 4.0 or more but less than 5.0.

Date : 08.07.16

*Saroj Kumar Das*  
H.O.D./Principal

*[Signature]*  
Controller of Examinations

*Saroj Kumar Das*  
15/11/2022





# Fakir Mohan University

Issue No. : 78  
Roll No. : 177017916029

0187707

## DIPLOMA FOR BACHELOR OF EDUCATION

This is to certify that **SAROU KUMAR DAS**

of **COLLEGE OF TEACHER EDUCATION, BALASORE**

who passed the Examination of **2018** held in the month of **MAY**

**2018** in **BACHELOR OF EDUCATION (SCIENCE STREAM)**

and awarded **FIRST CLASS** ... *was this day admitted to the Degree*

**METHOD OF TEACHING**  
PHYSICAL SCIENCE  
MATHEMATICS

ଶିକ୍ଷା ସ୍ନାତକ ଉପାୟ ପତ୍ର

୨୦୧୮, ମଇ । ମନ ମାସରେ ଅନୁଷ୍ଠିତ

ଶିକ୍ଷା ସ୍ନାତକ (ବିଜ୍ଞାନ) ପରୀକ୍ଷାରେ ପ୍ରଥମ ଶ୍ରେଣୀରେ

ଉତ୍ତୀର୍ଣ୍ଣ ହୋଇଥିବା ଶିକ୍ଷା ମନୋନିୟମାୟ, ବନଭଞ୍ଜର

ପରୀକ୍ଷାରେ ପ୍ରଥମ ଶ୍ରେଣୀରେ ପୁରା ହୋଇଥିବା

ପଦ୍ୟ ଏହି ଉପାୟ ପତ୍ରରେ ଦେଖା ।

ଶିକ୍ଷାବଳୟ ପ୍ରକଳ୍ପ  
ବୌଦ୍ଧିକ ବିଭାଗ  
ଗଞ୍ଜାମ

Fakir Mohan University  
Vyasa Vihar, Balasore, Odisha  
Type **29th November, 2018**

Vice-Chancellor

*Signature*



ପଠକ ଶାସନ ବିଶ୍ୱବିଦ୍ୟାଳୟ  
ବ୍ୟାସ ବିହାର, ବନଭଞ୍ଜର, ଓଡ଼ିଶା

ଓ. ୨୯/୧୧/୨୦୧୮ ରେ

ମଧୁସୂଦନ ଦାସ  
ରୂକ୍ମପତି

Sarou Kumar Das  
15/11/2018



Fakir Mohan University, Balasore, Odisha  
MARKS-CUM-GRADE SHEET

Examination	BACHELOR OF EDUCATION		SEMESTER	FIRST YEAR
College/Department	01FB-COLLEGE OF TEACHER EDUCATION, BALASORE (GOVT. COLLEGE)		Regd. No.	01975/2014
Name :	SAROJ KUMAR DAS		Roll No.:	17701FB16029
Paper	Subjects	Maximum Marks	Obtained Marks	
CPS-2	LEARNING ASSESSMENT	80 + 20	60 + 18	
CPS-3-AP	PEDAGOGY OF A SCHOOL SUBJECT PHYSC	80 + 20	51 + 18	
EPC-3	FINE ART	50	45	
EPC-4	PHYSICAL EDUCATION AND YOGA	50	44	
OCSD-3	TAILORING	50	44	
PE-1	EDUCATION, SCHOOL AND SOCIETY	80 + 20	60 + 18	
PE-2	CHILDHOOD AND GROWING UP	80 + 20	59 + 18	
PE-3	LEARNING AND TEACHING	80 + 20	58 + 18	
PE-4	CONTEMPORARY CONCERNS IN EDUCATION	80 + 20	63 + 19	
SIP-1	SCHOOL INTERNSHIP	100	93	
Result	PASS	SIX EIGHT SIX	Total	850 686

23-12-2017

Date

PRINCIPAL

College of Teacher Education,  
Balasore

CONTROLLER OF EXAMINATION



Fakir Mohan University, Balasore, Odisha  
MARKS-CUM-GRADE SHEET

Examination	BACHELOR OF EDUCATION MAY 2018		SEMESTER	SECOND YEAR
College/Department	01FB-COLLEGE OF TEACHER EDUCATION, BALASORE (GOVT. COLLEGE)		Regd. No.	01975/2014
Name :	SAROJ KUMAR DAS		Roll No.:	17701FB16029
Paper	Subjects	Maximum Marks	Obtained Marks	
CA	COMMUNITY ACTIVITIES	50	45	
CPS-1	LANGUAGE ACROSS THE CURRICULUM	40 + 10	35 + 8	
CPS-3-Math	PEDAGOGY OF MATHEMATICS	80 + 20	58 + 17	
EPC-1	CRITICAL UNDERSTANDING OF ICT	50	45	
EPC-2	UNDERSTANDING THE SELF	50	42	
PE-5	KNOWLEDGE AND CURRICULUM	80 + 20	66 + 18	
PE-6	EDUCATIONAL MANAGEMENT	80 + 20	66 + 17	
PE-7a	CREATING AN INCLUSIVE SCHOOL	40 + 10	33 + 8	
PE-7b	GENDER, SCHOOL AND SOCIETY	40 + 10	34 + 8	
PE-8a	ACTION RESEARCH	40 + 10	33 + 8	
PE-8b	GUIDANCE AND COUNSELLING	40 + 10	33 + 8	
SIP-II	SCHOOL INTERNSHIP PART II	150	135	
		AGGREGATE SECOND YEAR	850	717
		AGGREGATE FIRST YEAR	850	686
Result	FIRST CLASS	ONE FOUR ZERO THREE	Total	1700 1403

15-8-2018

Date

PRINCIPAL  
COLLEGE OF TEACHER EDUCATION  
BALASORE

CONTROLLER OF EXAMINATION

Saroj Kumar Das  
15/11/2022



वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्  
COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH

मानव संसाधन विकास समूह, परीक्षा एकक  
Human Resource Development Group, Examination Unit  
सी.एस.आई.आर. कॉम्प्लेक्स, लाईब्रेरी एवेन्यू, पुसा, नई दिल्ली- 110 012  
CSIR Complex, Library Avenue, Pusa, New Delhi-110 012

Dated: 30.10.2019

Sr.No. 1061951859  
Ref.No: 16/06/2019(i) EU-V  
ROLLNO: 503159  
Mr. SAROJ KUMAR DAS  
S/O SARAT KUMAR DAS  
AT-MADHUPUR, PO-ISWARPUR,  
KENDRAPARA ORISSA 754248



Sub: - Joint CSIR-UGC National Eligibility Test (NET) for Junior Research Fellowship (JRF) and eligibility for Lectureship (LS) held on 16.06.2019 and result declared on 09.08.2019.

Dear Candidate,

CSIR is pleased to inform you that you have been declared qualified in the above examination for award of Junior Research Fellowship and secured 29 rank in PHYSICAL SCIENCES subject under CSIR Fellowship scheme. Further, you have also been declared qualified for Lectureship (LS) in the above subject area, subject to fulfilling the eligibility criteria laid down by UGC.

The offer of Junior Research Fellowship is valid for a period of two years w.e.f. 01.01.2020 and is not extendable. It will be governed by the terms and conditions of the CSIR Junior Research Fellowship.

In order to accept this offer, you should send the joining report, undertaking and & attestation proforma (which can be downloaded from our website [www.csirhrdg.res.in](http://www.csirhrdg.res.in)) and submit the same, duly completed in all respects to The Deputy Secretary (EMR)/ Under Secretary (EMR) at the address given overleaf.

This letter may be treated as a certificate.

Yours sincerely,

डॉ. नगहान्शंग / K. NGAHANSHANG  
अवर सचिव (परीक्षा) / Under Secretary (Exam)  
वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्  
Council of Scientific & Industrial Research  
सी. एस. आई. आर. कॉम्प्लेक्स पुसा, नई दिल्ली-12  
CSIR Complex, Pusa, New Delhi-110012

**Important Note:**

- (a) This certificate is being issued on the basis of information provided by the candidate in his/her application form. The appointing authority/fellowship awarding authority should verify the original records/certificates of the candidate while considering him/her for appointment/fellowship, as Examination Unit, CSIR Complex is not responsible for the same. In case the candidate has qualified under RA (Result Awaited Category), the certificate will be valid only from the date of acquiring the requisite qualification as stipulated in the notification. The details regarding the eligibility criteria for this test are given overleaf.
- (b) In case the candidate does not fulfil any of the eligibility conditions and Caste/PwD/EWS status (wherever applicable), this certificate may be treated as cancelled.



**COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH  
HUMAN RESOURCE DEVELOPMENT GROUP  
CSIR Complex, Library Avenue  
Pusa, New Delhi - 110 012, India**

The date of declaration of result of Joint CSIR-UGC Junior Research Fellowship & Eligibility for Lectureship (NET) Exam held on 16th June, 2019 is 09/08/2019

Marks Statement

Roll Number : <b>503159</b>	
Name : <b>Mr. SAROJ KUMAR DAS</b>	
Subject : <b>Physical Science</b>	
Applied For : <b>JRF-LECTURESHIP</b>	
<b>Marks obtained</b>	
Part A	25
Part B	44.625
Part C	28.75
Total Marks	98.375
Percentage	49.19%
Rank	29
Result	JRF(NET)-CSIR
CSIR HRDG is not responsible for any inadvertent error that may have crept in the result being published on internet.	

*Saroj Kumar Das*

*15/11/2022*



# GATE 2019 Scorecard

## Graduate Aptitude Test in Engineering

Candidate's Details

Name

SAROJ KUMAR DAS

Registration Number

PH19S46039121

Examination Paper

Physics (PH)



Saroj Kumar Das

(Candidate's Signature)

Performance

Marks out of 100\*

26.67

Valid from March 17, 2019 to March 16, 2022

Qualifying Marks\*\*

25.2

22.7

16.8

General OBC (NCL) SC/ST/PwD

All India Rank in this paper

2012

GATE Score

375

Number of Candidates  
Appeared in this paper

16296

\* Normalized marks for multi-session papers

\*\* A candidate is considered qualified if the marks secured are greater than or equal to the qualifying marks mentioned for the category for which valid category certificate, if applicable, is produced along with this scorecard

Digital Fingerprint: b1d1072906fad0396c0eba58c7ea714d

N. J. Vasu  
Prof. Nilesh J. Vasu

March 17, 2019

Organizing Chairman, GATE 2019  
(on behalf of NCB - GATE, for MHRD)

The GATE 2019 score is calculated using the formula

$$GATE\ Score = S_q + (S_r - S_q) \frac{(M - M_q)}{(M_r - M_q)}$$

where,

 $M$  is the marks obtained by the candidate in the paper, mentioned on this GATE 2019 scorecard $M_q$  is the qualifying marks for general category candidate in the paper $M_r$  is the mean of marks of top 0.1% or top 10 (whichever is larger) of the candidates who appeared in the paper (in case of multi-session papers including all sessions) $S_q = 350$ , is the score assigned to  $M_q$  $S_r = 900$ , is the score assigned to  $M_r$ In the GATE 2019 score formula,  $M_q$  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 in the paper.

Qualifying in GATE 2019 does not guarantee either an admission to a post-graduate program or a scholarship/assistantship. Admitting institutes may conduct further tests and interviews for final selection.

**Codes for XE and XL Paper Sections (compulsory section and any other two sections)****XE: Engineering Sciences**

- A - Engineering Mathematics (compulsory)
- B - Fluid Mechanics
- C - Materials Science
- D - Solid Mechanics
- E - Thermodynamics
- F - Polymer Science and Engineering
- G - Food Technology
- H - Atmospheric and Oceanic Sciences

**XL: Life Sciences**

- P - Chemistry (compulsory)
- Q - Biochemistry
- R - Botany
- S - Microbiology
- T - Zoology
- U - Food Technology

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