GATE MASTER

Mini Project- Sem 5

Submitted in partial fulfilment of the requirements

of the degree of

Bachelor of Engineering in

Information Technology

by

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under the guidance of

Supervisor (s):

Mrs. Charusheela Nehete

Department of Information Technology

Vivekanand Education Society's Institute of Technology

2021-2022

Since 1962

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(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

Department of Information Technology

CERTIFICATE

This is to certify that **Mr Aryan Dubey - IT5B108 , Mr Mangesh Sokalwar-IT5B135, Mr Aaryan Swami-IT5B105** of Third Year Information Technology studying under the University of Mumbai have satisfactorily presented the Mini Project entitled **GATE MASTER** as a part of the MINI-PROJECT for Semester-V under the guidance of **Mrs Charusheela Nehete** in the year 2021-2022.

Date:

(Name and sign)
Head of Department

(Name and sign)
Supervisor/Guide

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DECLARATION

We **Mr Aryan Dubey -IT5B108 , Mr Mangesh Sokalwar-IT5B135, Mr Aaryan Swami -IT5B105** from ***IT-D15B***, declare that this project represents our ideas in our own words without plagiarism and wherever others' ideas or words have been included, we have adequately cited and referenced the original sources.

We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in our project work.

We declare that we have maintained a minimum 75% attendance, as per the University of Mumbai norms.

We understand that any violation of the above will be cause for disciplinary action by the Institute.

Yours Faithfully

1.Aryan Dubey

2.Mangesh Sokalwar

3.Aryan Swami

(Name & Signature of Students with Date)

Acknowledgement

We would like to express our gratitude towards our teachers for their valuable guidance, support and encouragement throughout the project and thank them for their supervision and for providing us with the necessary information regarding the project.

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1] INTRODUCTION

Online learning platform that offers a lot of online courses and can be agreat option if you're interested in a one-off course in a specific subjector skill set. The platform's offerings cover categories like development;business; finance & accounting; IT & software; office productivity; personal development; design; marketing; lifestyle; photography & video; health & fitness; music, and teaching & academics.

PROBLEM STATEMENT

- In this current prevailing covid conditions we have decided to come up with an e-learning website application for students to study from home.
- GateMaster is a website application made using Angular for Frontend (HTML, CSS and JavaScript) and Django for backend and database targeting students aspiring for Masters Degree and for getting Jobs in the Public Sector through the means of gate examination.
- Our websites aims at providing all the material at one place for different streams for free hence saving valuable time and money of the students which they can invest in preparation.

EXISTING SYSTEM VS PROPOSED SYSTEM

- The Traditional learning system provide face-to-face interaction between students and the teacher which was not possible during covid-19

- Whereas in Gate Master the students can learn from comforts of their home which is a safer altenative and Gate Master provide everything free unlike other gate preparation website

OBJECTIVES

- Our project GateMaster is a website to help the student appearing for Gate examination in the near future.
- Our website will contain study material for students appearing for multiple branches. It will contain video lectures on different topics and notes on the same for better preparation of the students.
- It will also contain previous year Question Papers, both with solutions and without solutions so that the students can practice thoroughly.
- Our website also has a mentor facility which students can avail for a one on one guiding session if needed.

SCOPE:

The E-learning technologies aim to enhance the target of learning outcome in the Education thorough the effective uses of the e-learning technology tools andempower the innovative learning. In the current era, E-learning is playing an effective role to develop the students technical, design and development skills.

2] LITERATURE SURVEY

- Online education goes beyond the domain of secondary, post-secondary and tertiary education. It also has courses and modules for competitive exam preparation, professional skill enhancement, and other non-academic subjects.
- In fact, India's e-learning market is the second largest after the US, which is predicted to grow by 15.64 percent and increased $48 billion by 2020.
- 90% of corporations now use e-learning compared to just 4% in 1995. -KPMG, LinkedIn
- The global corporate e-learning market size will be worth $50 billion by 2026. With an annual growth rate of 15% from 2020 to 2026, the corporate market will be one of the biggest drivers of the e-learning industry. - BusinessWire

- These reports suggest that online learning environments may hold significant potential for increasing educational productivity. Both found that online learning environments produced better outcomes than face-to-face schools

- However, these conclusions must be viewed cautiously because both reports lacked statistical controls that could have ruled out other explanations of the findings

Future Scope:

Discussion Forum: As our user database increases we are planning to add a discussion forum common to all the users. In the discussion forum the users can share their views, questions or anything related to the exam in the form of comments.
Test Series: We are also planning to include test series of the examination for even better and thorough preparations of the students.

REFERENCES

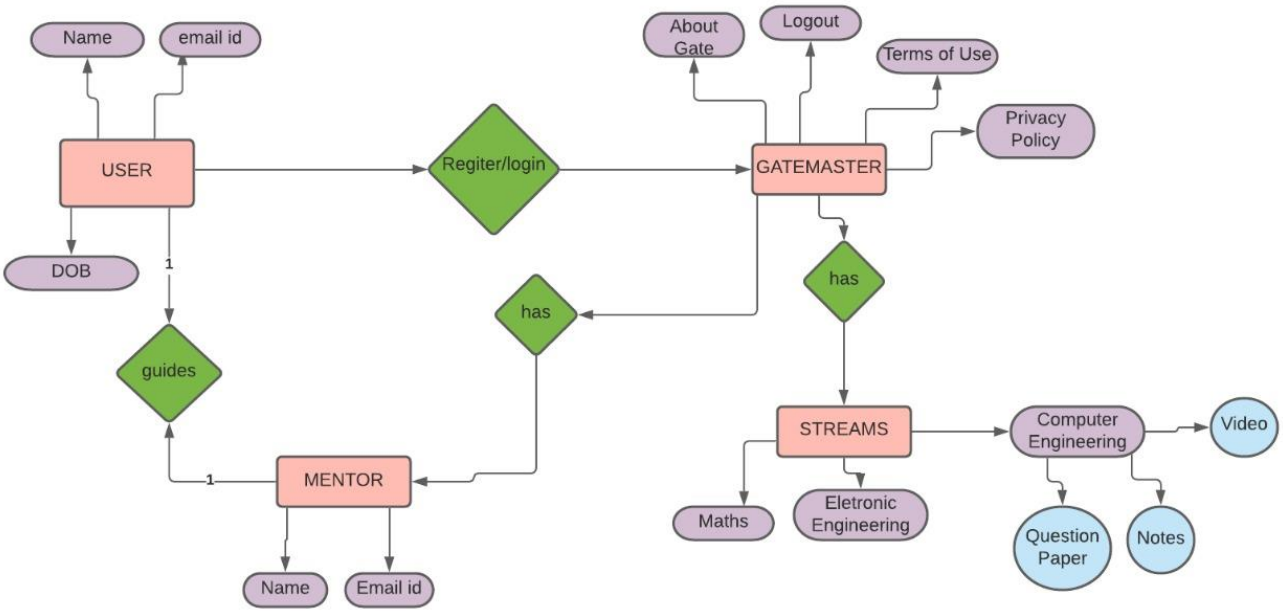
- YouTube:

i. https://www.youtube.com/c/GateSmashers
ii. https://www.youtube.com/c/nesoacademy/playlists

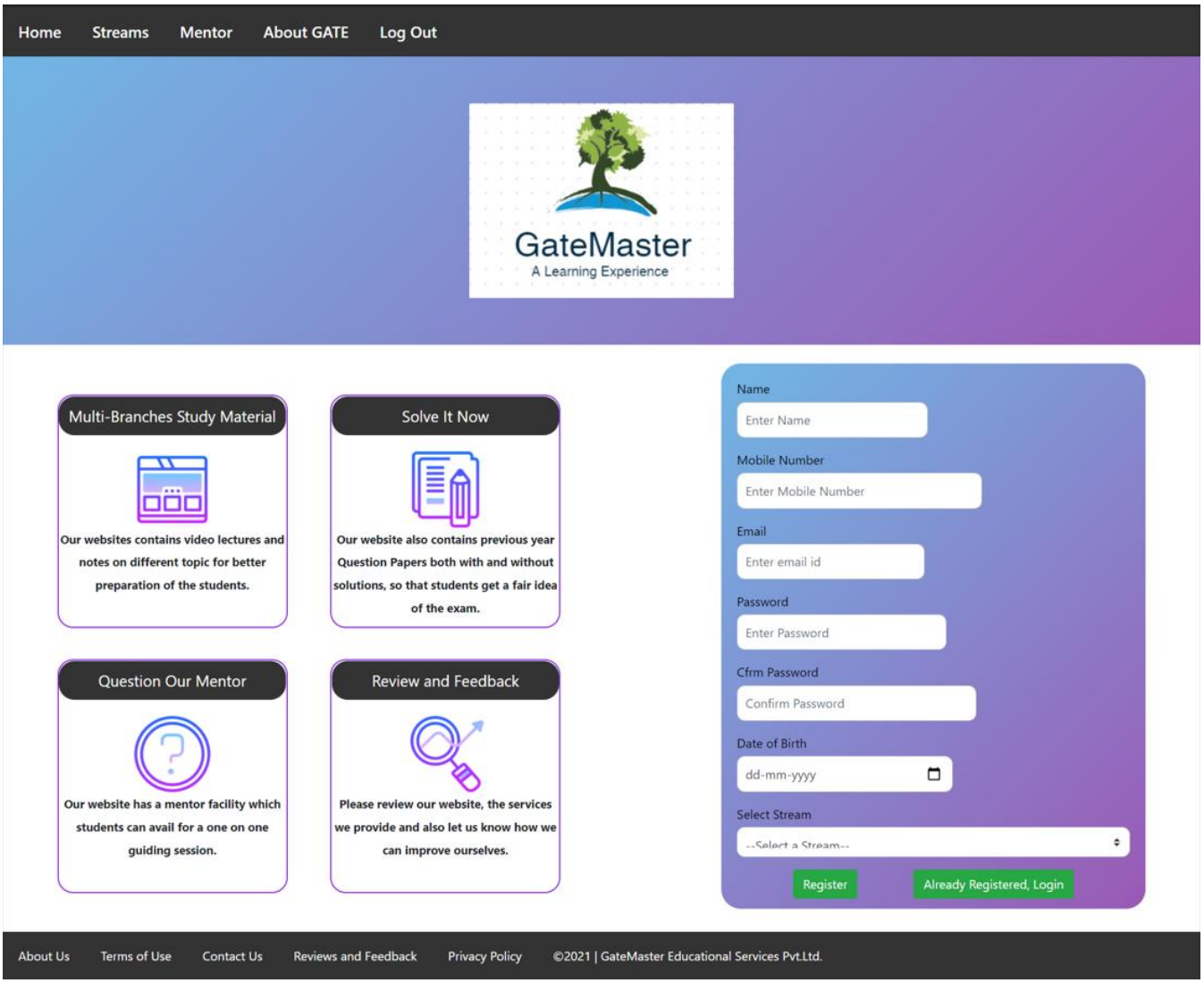
- Gate Preparation Websites:

i. https://nptel.ac.in/gate_paper.html
ii. https://gate.appliedroots.com

3] ANALYSIS AND DESIGN



FRONT END DESIGNS



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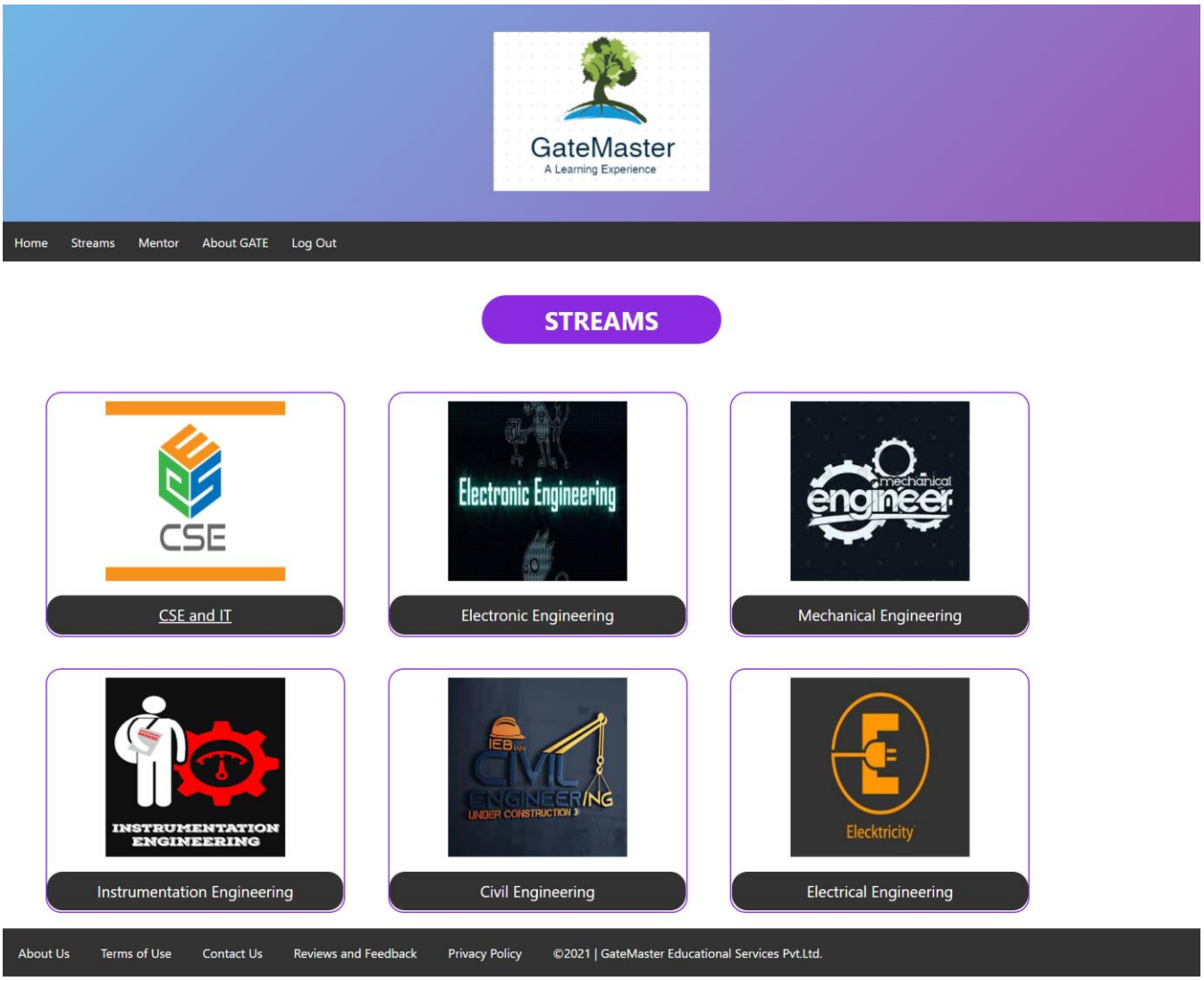
Streams



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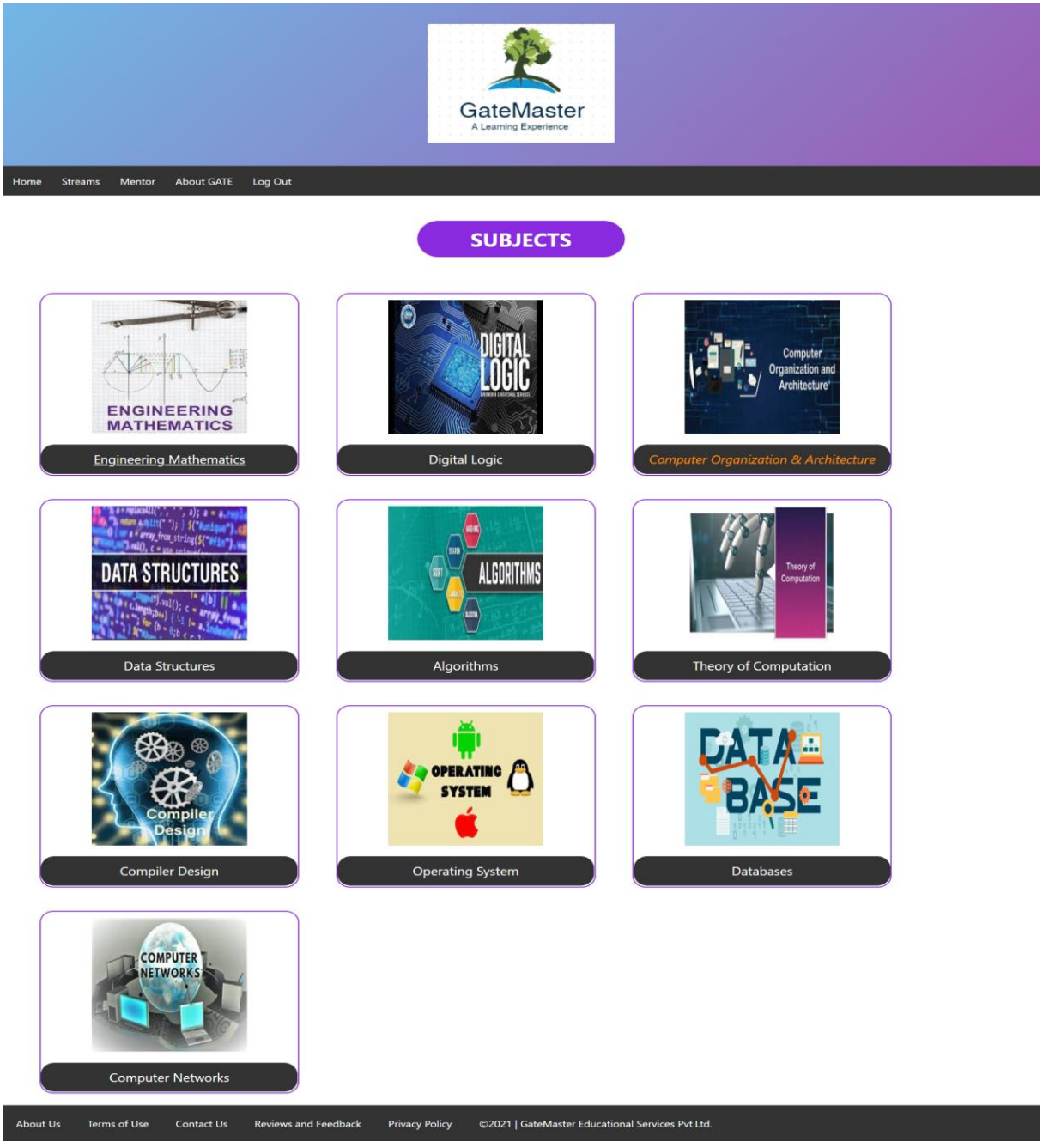
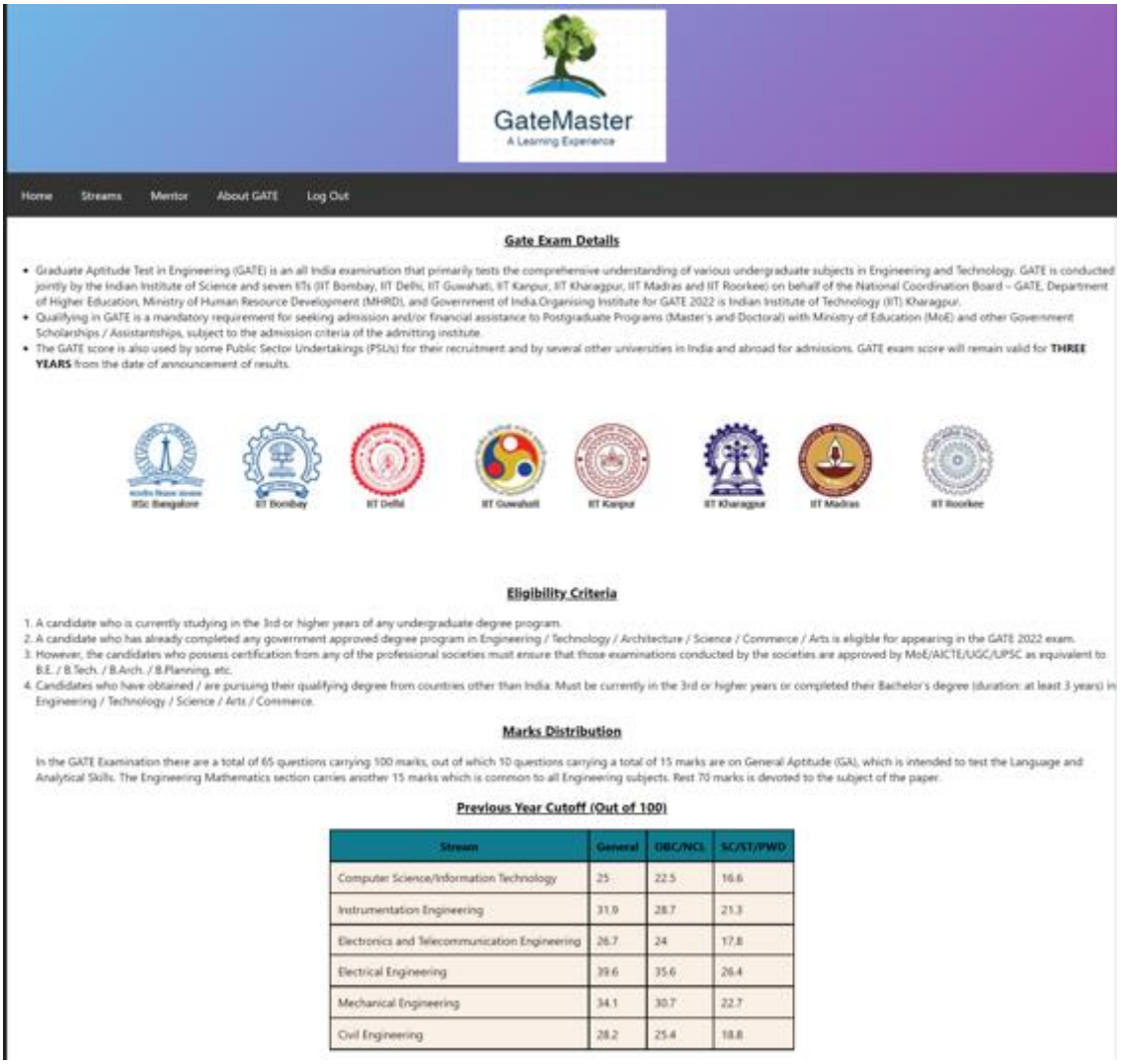
Subject



About Gate



GateMaster
A Learning Experience

Home Streams Mentor About GATE Log Out

Gate Exam Details

- Graduate Aptitude Test in Engineering (GATE) is an all India examination that primarily tests the comprehensive understanding of various undergraduate subjects in Engineering and Technology. GATE is conducted jointly by the Indian Institute of Science and seven IITs (IIT Bombay, IIT Delhi, IIT Guwahati, IIT Kanpur, IIT Kharagpur, IIT Madras and IIT Roorkee) on behalf of the National Coordination Board – GATE, Department of Higher Education, Ministry of Human Resource Development (MHRD), and Government of India.Organising Institute for GATE 2022 is Indian Institute of Technology (IIT) Kharagpur.
- Qualifying in GATE is a mandatory requirement for seeking admission and/or financial assistance to Postgraduate Programs (Master's and Doctoral) with Ministry of Education (MoE) and other Government Scholarships / Assistantships, subject to the admission criteria of the admitting institute.
- The GATE score is also used by some Public Sector Undertakings (PSUs) for their recruitment and by several other universities in India and abroad for admissions. GATE exam score will remain valid for **THREE YEARS** from the date of announcement of results.

IISc Bangalore IIT Bombay IIT Delhi IIT Guwahati IIT Kanpur IIT Kharagpur IIT Madras IIT Roorkee

Eligibility Criteria

1. A candidate who is currently studying in the 3rd or higher years of any undergraduate degree program.
2. A candidate who has already completed any government approved degree program in Engineering / Technology / Architecture / Science / Commerce / Arts is eligible for appearing in the GATE 2022 exam.
3. However, the candidates who possess certification from any of the professional societies must ensure that those examinations conducted by the societies are approved by MoE/AICTE/UGC/UPSC as equivalent to B.E. / B.Tech. / B.Arch. / B.Planning, etc.
4. Candidates who have obtained / are pursuing their qualifying degree from countries other than India. Must be currently in the 3rd or higher years or completed their Bachelor's degree (duration: at least 3 years) in Engineering / Technology / Science / Arts / Commerce.

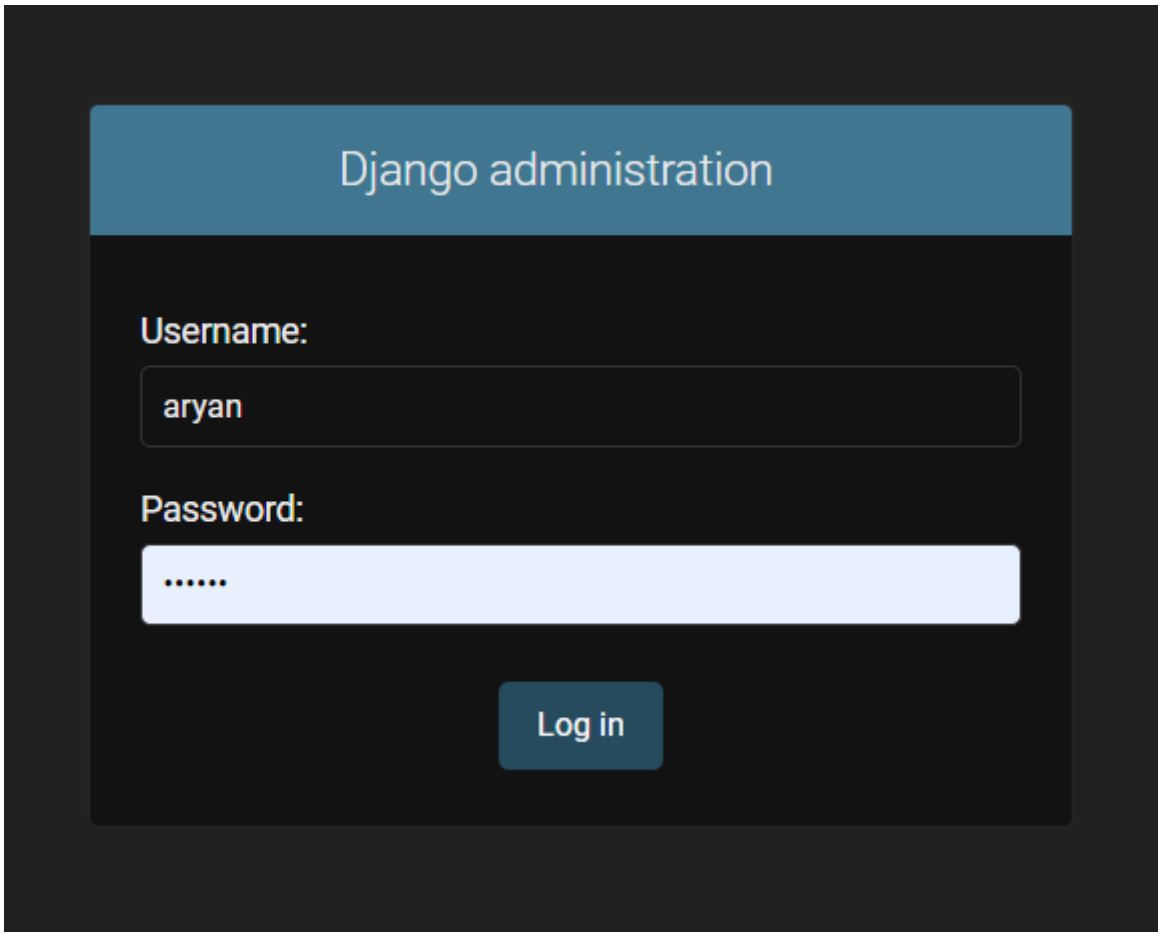
Marks Distribution

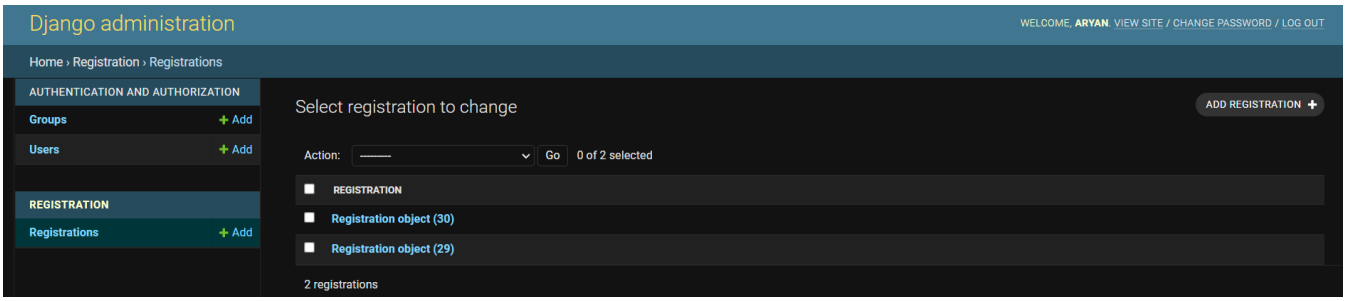
In the GATE Examination there are a total of 65 questions carrying 100 marks, out of which 10 questions carrying a total of 15 marks are on General Aptitude (GA), which is intended to test the Language and Analytical Skills. The Engineering Mathematics section carries another 15 marks which is common to all Engineering subjects. Rest 70 marks is devoted to the subject of the paper.

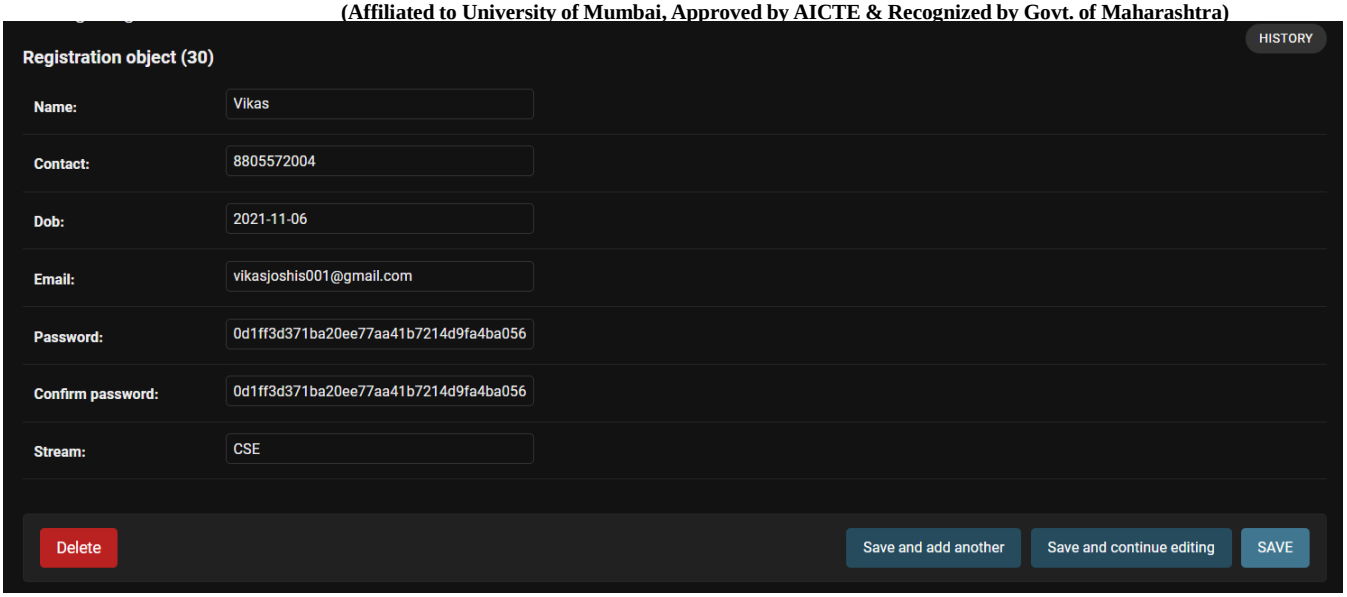
Previous Year Cutoff (Out of 100)

Stream	General	OBC/NCL	SC/ST/PWD
Computer Science/Information Technology	25	22.5	16.6
Instrumentation Engineering	31.9	28.7	21.3
Electronics and Telecommunication Engineering	26.7	24	17.8
Electrical Engineering	39.6	35.6	26.4
Mechanical Engineering	34.1	30.7	22.7
Civil Engineering	28.2	25.4	18.8

BACKEND DESIGN







Conclusion

Hence the Gate Master works according to the requirements of the Students.

Reference:

- YouTube videos and Existing Gate preparation Websites.