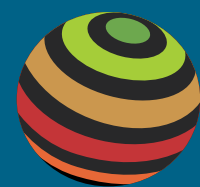


GATE

ESE

PSUs

JEn/JTO



*Gate
Revolution*

North India's **LEADER** in Gate Coaching

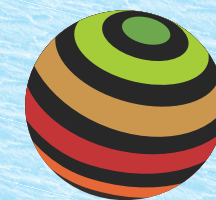
Head Office: SCO 54-55, Top Floor, Sector 34-A, Chandigarh Ph.: 0172-4655455

Patiala Office: SCO 141, 3rd Floor, Chotti Baradari, Ph.: 0175-5051145

Gurgaon Office: ML Complex, Dhanwapur Road, Opp Sec 4, Gurgaon, NCR Delhi



*Gate
Revolution*
North India's LEADER in Gate Coaching



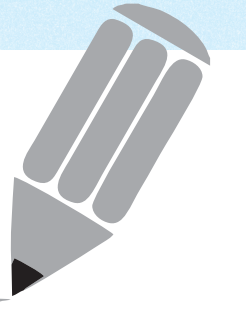
*Gate
Revolution*

North India's **LEADER** in Gate Coaching



या देवी सर्वभूतेषु विद्यारूपेण संस्थिता ।
नमस्तस्ये-नमस्तस्ये-नमस्तस्ये- नमो नमः ॥

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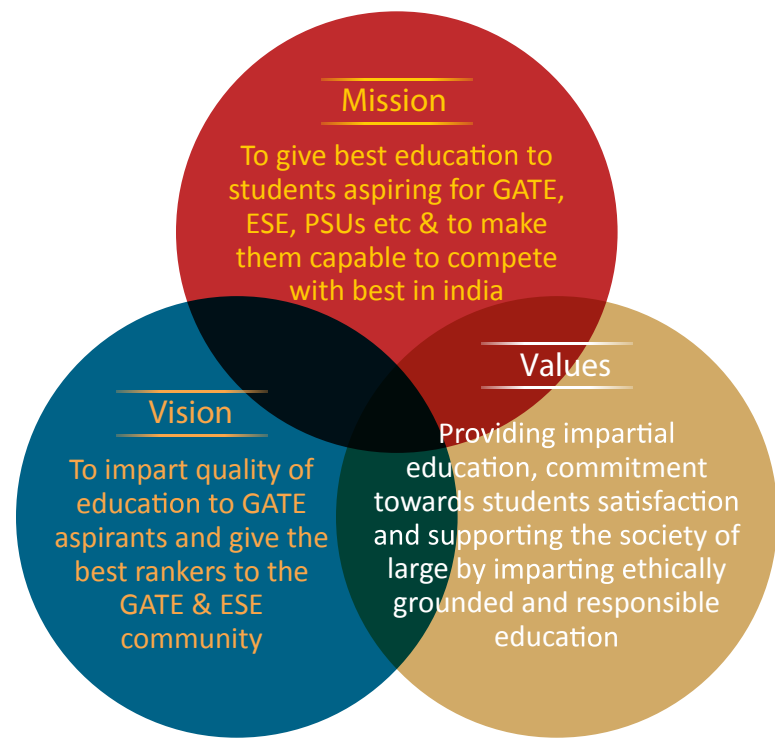


About Gate Revolution

GATE REVOLUTION is a unit of GURU GRAM GROUP OF INSTITUTIONS, founded in 2003 by a group of visionaries and intellectuals to impart education in a Stimulating & innovative environment. Since its inception the group has promoted education in the area of Aviation, Engineering Sciences & Management with all the campuses equipped with the state of art infrastructure.

We the Gate Revolution - One of the most reputed and renowned name in GATE, ESE, PSUs and other Technical competitive exams

coaching Institute in India. We are having all over the Punjab and counted as one of the best GATE coaching in North region. The Institute has risen beyond all the expectations in terms of volume and quality of results. The growth in number of students enrollment in classroom coaching as well as selections in IITs and PSUs is matchless as compared to any other institute in the country that offering classroom courses for GATE coaching. The Institute is having its own Study Centres, which are offering Classroom Programmes for GATE at Chandigarh, Patiala, We are also the lead trainers in classroom courses for PSUs, ESE(IES), JE, SDO, and JTO e. c. and Distance Learning Programmes.



Courses Offered

- Classroom Study Course
- Postal Study Course
- Online Test Series
- Classroom (offline) Test series
- Two Year Classroom Course
- Campus Training Programme
- Campus Placement Course
- GS, English & Aptitude Course
- Interview Guidance Course

Streams:-

- Computer Science & Information Technology
- Electronics & Communication Engineering
- Electrical Engineering
- Instrumentation Engineering
- Mechanical Engineering
- Civil Engineering

WHY GATE REVOLUTION

- Gate Revolution provides result oriented excellent coaching for ESE/GATE by experienced erudite faculty members
- Gate Revolution will guide students successfully to mould their carrier in the right way
- Gate Revolution has become a launching platform not only for merit students but also for the students with average academic background to achieve best ranks in ESE and secure jobs in top notch central government jobs.
- The inspiration and motivation gained in Gate Revolution made the students confident to aim high in life.
- The personal care taken by The Directors, The management and the faculty members which make the students feel homely and they can concentrate on the studies with a focus to get the best results.



What is GATE?

Graduate Aptitude Test in Engineering (GATE) is an all India entrance Examination conducted jointly by IISc and seven other IITs, every year in the month of January/ February. The GATE score/Rank is used for admissions to Post graduate Programmes (ME, M.Tech, MS, direct PhD) in IISc, IITs and other Universities in India, with financial assistance provided by MHRD. The GATE score may also be used by PSUs for recruitment of candidates for prestigious jobs with attractive salary packages. Some of the PSUs which use GATE Score for providing jobs include BARC, BHEL, IOCL, HPCL, NTPC, Power Grid, NHPC etc. GATE exam primarily tests the comprehensive understanding of the candidate in various undergraduate subjects in Engineering. The GATE score reflects the relative performance level in a particular branch. GATE score is valid for three years.

Benefits of Taking GATE

- You can get admission in M.Tech/MS in the IISc/IITs/NITs and other Universities depending upon your score.
- If you were unlucky in IIT – JEE, you can get one more chance to realize on your cherished goal of studying in IISc/IITs by taking GATE.
- Based on GATE Score, you can apply for some of the top PSUs which offer lucrative jobs.
- With a good GATE score you can land in IISc/IITs/NITs where you can have an abundant campus placements with attractive salary packages ranging from Rs 6 Lakh to 30 Lakh per annum.
- You can shift to management side by doing PG Diploma of 2 year in Industrial engineering in NITIE Mumbai, where admissions are based on GATE score and interview.
- If you don't have first class in Engineering and if it is a hurdle to apply for some of the jobs the like teaching. It can be overcome by doing M.Tech/MS.
- You can try for MS admissions based on GATE score in some of the foreign Universities like in Singapore, New Zealand, Germany, Japan and China.

Benefits of M. Tech:

- M. Tech from a good institute helps you to stand out from the rest.
- M. Tech opens up a lot of carrier paths in the fields of Teaching, Research and other Core sectors, apart from the existing alternatives.
- Better Placements in top PSUs, MNCs and Indian companies both in India and Abroad.
- A Minimum stipend of 12,400/- per month will be given to regular students joining colleges under MHRD.
- Opportunity to work in research positions like JRFs, in ISRO/ DRDO/ BARC/ IITs etc.
- The M.Tech gives changes to pursue specialization of interest.

Eligibility

- Bachelor's degree holders in Engineering / Technology / Architecture (4 years after 10 + 2) and those who are pursuing the final year of such program.
- Master's degree holders in any branch of Science / Mathematics / Statistics / Computer / Applicants or equivalent and those whose are in the final year of such programs.
- There is no upper age limit

Pattern of Question Paper

All the papers of GATE will be conducted by an ONLINE computer Based Test (CBT). The GATE paper consists of questions of both multiple choice type and numerical answer type. For numerical answer type questions, the candidates have to enter a number as the answer using a virtual key board. The GATE examination consists of a single paper of 3 hour duration that contains 65 questions carrying a maximum of 100 marks.

Tips to Crack GATE

- Focus on High Return Subjects - GATE qualifying scores are normally hover around 25 / 100 marks. Interestingly, Engineering Mathematics and General Aptitude subjects themselves account for more than 30% of the total marks. Hence, focusing on these relatively easier subjects would help in crossing the first hurdle of qualifying easily.
- Understand your strengths and take exam accordingly - Nobody has scored 100% marks in GATE, and neither will you. Hence, it is important to understand your key strengths and choose the questions which will maximize your probability of scoring higher. A good exam taker knows which question to tackle and which not.
- Familiarize with Formulae - A number of questions are formulae based and hence can be answered very easily just by applying the formulae. Hence, it is important that not only you get yourselves acquainted well with the formulae, but also understand 3-5 of its use cases.
- Practice, Practice and more Practice - Practice hard. Period. This is the best tool on hand in order to understand your preparation level as well as your strengths and weaknesses. Take as many mock tests as possible. 'Practice makes a man perfect'!
- Relax before the exam - 80% of the battle is fought in the exam day. Hence, no matter how well you have prepared, it is important that you relax well for the day. Relaxing techniques vary from person to person, and hence, figure out the mechanism that works best for you and deploy that.

ALL OF US DO NOT HAVE EQUAL TALENT. BUT,
ALL OF US HAVE AN **EQUAL** OPPORTUNITY
TO DEVELOP OUR TALENTS.

- Dr. A.P.J. Abdul Kalam

3

Cut-off Marks

Stream	GATE 2016			GATE 2015			GATE 2014		
	Gen.	OBC	SC/ST/PH	Gen.	OBC	SC/SST	Gen.	OBC	SC/SST
CE	25.00	22.50	16.60	25.00	22.05	16.67	26.57	23.91	17.71
ME	29.60	26.60	19.70	32.73	29.46	21.82	25.00	22.05	16.67
EE	25.10	22.50	16.70	25.00	22.05	16.67	25.00	22.05	16.67
EC	25.00	22.50	16.60	25.00	22.05	16.67	25.56	23.01	17.04
CS	25.00	22.50	16.60	25.00	22.05	16.67	28.86	25.97	19.24
IN	31.60	28.40	21.00	25.45	22.09	16.96	25.00	22.05	16.67

Ranking List of Colleges/University Placement wise for M.Tech

1 IISc Bangalore	12 IIT Guwahati	23 CEAU Vishakhapatnam	34 PSG College of Technology Coimbatore	45 LIT Nagpur
2 IIT Bombay	13 ISM Dhanbad	24 VJTI Mumbai	35 UVCE Bangalore	46 JNTU Kakinada
3 IIT Kanpur	14 BIT, Mesra	25 NIT Suratkal	36 GCE Pune	47 MJEC Hyderabad
4 IIT Kharagpur	15 College of Engg, Anna University Guindy	26 NIT Rourkela	37 IIIT Pune	48 MIT Pune
5 IIT Delhi	16 Motilal Nehru National Inst. of Technology Allahabad	27 CE Trivandrum	38 MUICT Mumbai	49 B.M.S. College of Engineering Bangalore
6 IIT Madras	17 NIT Warangal	28 SPCE Mumbai	39 VNIT Nagpur	50 Gitam Vishakhapatnam
7 BITS Pilani	18 NIT Jamshedpur	29 SRM Institute of Science and Technology Chennai	40 MIT Manipal	51 KIT Coimbatore
8 IIT Roorkee	19 IIIT Hyderabad	30 MNIT Jaipur	41 ASE Noida	52 NIE Mysore
9 IT-BHU Varanasi	20 DCE New Delhi	31 R.V. College of Engineering Bangalore	42 MANIT Bhopal	53 NIT Hamirpur
10 PEC Chandigarh	21 SVNIT Surat	32 JNTU Hyderabad	43 HBTI Kanpur	54 NIT
11 Jadavpur University, Faculty of Engg & Tech Calcutta	22 NIT Trichy	33 Chaitanya Bharathi Inst. of Technology Hyderabad	44 OUCE Hyderabad	55 Bengal Eng and Science University, Shibpur Howrah

4

What is ESE(IES)

Indian Engineering Services comprise of engineers who work under the government of India and designated as Class – 1 officer. They administer a large segment of the public sector economy, which constitutes of Indian Railways, Power, Telecommunications, Central Water engineering, Defense service of Engineers, Central Engineering Service, etc. The nature of work performed by these bureaucrats largely depends on their engineering branch and the service or cadre they are recruited in. The career progression goes smoothly attaining high esteem. The first position offered is that of Asst. Executive engineer and the hierarchy ends at the position of Chairman/Managing Director.

A combined competitive examination is conducted by the Union Public Commission (UPSC) for recruitment to the Indian Engineering Services. The Examination constitutes a written examination followed by an interview for the personality test. The recruitment of qualified candidates the following categories:

- Electronics & Telecommunications Engineering
- Electrical Engineering
- Mechanical Engineering
- Civil Engineering

ESE 2016 Eligibility

(I) Nationality:

A candidate must be either

- A citizen of India or
- A subject of Nepal or A subject of Bhutan or
- A Tibetan refugee who came over to India Before the 1st January, 1962 with the intention of permanently settling in India.

(II) Age Limits:

- A candidate for this examination must have attained the age of 21 years and must not have attained the age of 30 years on the 1st January, of the exam year.
- The upper age – limit of 30 years will be Relax able up to 35 years in the case of Government servants of the following categories, if they are employed in a Department/Office under the control of any of the authorities mentioned in column 1 below and apply for admission to the examination for all or any of the Service(s)/Posts mentioned 2, for which they otherwise eligible.

Revised Pattern for ESE 2017

Stage – 1: Preliminary (Objective Type paper)

General Studies and Engineering Aptitude	2 hours	200 marks
Engineering Discipline – Specific Paper	3 hours	300 marks
Sub Total	500 marks	

- Minimum qualifying marks for each paper will be at the discretion of the commission.
- Candidates qualifying Stage – 1 will be eligible to appear for Stage – 2 examination

Stage – 2: Mains (Conventional Type paper)

Engineering Discipline – Specific Paper - I	3 hours	300 marks
Engineering Discipline – Specific Paper - II	3 hours	300 marks
Sub Total	600 marks	

- Candidates qualifying Stage – 1 + Stage – 2 will be eligible to appear for Stage – 3 examination (Personality Test).

Stage – 3 (Personality Test)

Personality Test	200 marks
Grand Total (Stage – 1 + Stage-2 + Stage - 3)	1300 marks

Departments Allocation through ESE

A. Electronics Engineering

1. Indian Railway Service of Signal Engineers
2. Indian Railway Stores Service
3. Indian Telecom Service Group – A
4. Central power Engineering Services (E & T Posts)
5. Engineer GCS Group A in WPC/MO(M/O communication & IT)
6. Indian Inspection Service Group A (E & T Posts)
7. Indian Supply Services Group A (E & T Posts)
8. Indian Ordnance Factories Services
9. Assistant Naval Store Officer Grade – I in Indian Navy
10. Indian Naval Armament Service
11. Assistant Executive Engineer in Corps of EME, Ministry of Defense

B. Electrical Engineering

1. Indian Railway Service of Electrical Engineers
2. Indian Railway Stores Service
3. Indian Defense Service of Engineers (Electrical Posts)
4. Central Mechanical & Electrical Engineering Service (Electrical Post)
5. Central Power Engineering Service (Electrical Post)
6. Indian Ordnance Factories Services
7. Indian Supply Service Group A (Electrical Posts)
8. Assistant Naval Store Officer Grade – I in Indian Navy
9. Indian Naval Armament Service
10. Assistant Executive Engineer in Corps of EME, Ministry of Defense

C. Mechanical Engineering

1. Indian Railway Service of Mechanical Engineers

2. Indian Railway Stores Service
3. Indian Defense Service of Engineers
4. Central Mechanical & Electrical Engineering Service (Mechanical Post)
5. Central Water Engineering Service Group – A (Mechanical Post)
6. Central Power Engineering Service (Mechanical Post)
7. Indian Ordnance Factories Services
8. Indian Inspection Service Group A
9. Central Engineering Service (Roads) Group - A
10. Indian Supply Service Group A (Mechanical Posts)
11. Assistant Executive Engineer Group A Geological Survey of India
12. Assistant Naval Store Officer Grade – I in Indian Navy
13. Indian Naval Armament Service
14. Assistant Executive Engineer in Corps of EME, Ministry of Defense.

D. Civil Engineering

1. Indian Railway Service of Engineers
2. Central Engineering Service
3. Indian Defense Service of Engineers
4. Indian Railway Stores of Service
5. Central Engineering Service (Roads) Group - A
6. Central Water Engineering Service
7. Indian Ordnance Factories Services
8. AEE in P & T building works Group – A Services
9. AEE in Border Road Egg. Services GR – A

PSU

Public Sector Undertaking (PSU)

A state – owned enterprise in India is called a public sector undertaking (PSU) or a public sector enterprise. These companies are owned by the union government of India, or one of the many state or territorial government, or both. The company stock needs to be majority – owned by the government to be a PSU. PSUs may be classified as Central Public Sector Enterprises (CPSEs), Public Sector Banks (PSBs) or State Level Public Enterprise (SLPEs). CPSEs are administered by the Ministry of Heavy Industries and Public Enterprises.

List of Public Sector Undertaking

As on 30 September 2015 there are 7 Maharatnas, 17 Navratnas and 73 Miniratnas

Maharatna

Eligibility:

Three years with an average annual net profit of over Rs. 2500 crore (earlier was 5,000 Cr), OR Average annual Net worth of Rs. 10,000 crore for 3 years (earlier was 15,000 Cr), OR Average annual Turnover of Rs. 20,000 crore for 3 years (earlier was 25,000 Cr)

Benefits for investment:

Rs. 1,000 crore – Rs. 5,000 crore, or fee to decide on investments up to 15% of their net worth in a project

List of Maharatna Companies

Coal India Ltd	Indian Oil Corporation Ltd.
NTPC Ltd	Steel Authority of India Ltd
GAIL (India) Ltd	Oil and Natural Gas Corporation
Bharat Heavy Electrical Ltd.	

Navratna

Eligibility:

A score of 60 (out of 100), based on six parameters which include net profit, net worth, total manpower cost, total cost of production, cost of services, PBDIT (Profit Before Depreciation, Interest and Taxes), Capital employed, etc., and a company must first be a Miniratna and have 4 independent directors on its board before it can be made a Navratna.

Benefits for investment:

Rs. 1,000 crore – Rs. 5,000 crore, or fee to decide on investments up to 15% of their net worth in a project

List of Navratna Companies

Engineers India Ltd.	Bharat Electronics Ltd.
Bharat Petroleum Corporation Ltd.	Hindustan Aeronautics Ltd.
Hindustan Petroleum Corporation Ltd.	Mahanagar Telephone Nigam Ltd.
National Aluminium Company Ltd.	National Mineral Development Corporation
Neyveli Lignite Corporation Ltd.	Oil India Ltd.
Power Finance Corporation Ltd.	Container Corporation of India
National Buildings Construction Corporation	Power Grid Corporation of India
Rashtriya Ispat Nigam Ltd.	Rural Electrification Corporation
Shipping Corporation of India	

Miniratna

Eligibility:

Have made profits continuously for the last three years or earned a net profit Rs. 30 crore of more in one of the three years have made profits continuously for the last three years and should have a positive net worth.

Benefits for investment:

Up to Rs. 500 crore or equal to their net worth, whichever is lower.

UP to Rs. 300 crore or up to 50% of their net worth, whichever is lower.

List of Miniratna Companies

Airport Authority of India	Antrix Corporation
Balmer Lawrie & Co. Ltd.	Bharat Coking Coal Ltd.
Bharat Dynamics Ltd.	BEML Ltd.
Bharat Sanchar Nigam Ltd.	Bridge & Roof Company (India) Ltd.
Central Warehousing Corporation	Central Coalfields Ltd.
Chennai Petroleum Corporation	Cochin Shipyard Ltd.
Dredging Corporation of India	Kamarajar Port Ltd.
Garden Reach Shipbuilders & Engineers Ltd.	Goa Shipyard Ltd.
Hindustan Copper Ltd.	HLL Lifecare Ltd.
Hindustan Newsprint Ltd.	Hindustan Paper Corporation
Housing & Urban Development Corporation	India Tourism Development Corporation
India Trade Promotion Organization	Indian Rare Earths Ltd.
Indian Railway Catering and Tourism Corporation	IRCON International Ltd.
KIOCL Ltd.	Manganese Ore (India) Ltd.
Mishra Dhatu Nigam Ltd.	NHPC Ltd.
Northern Coalfields Ltd.	Numaligarh Refinery Ltd.
Railtel Corporation of India	Rail Vikas Nigam Ltd.
RITES Ltd.	And many more..

● PSU's Recruiting through Gate ●

Sr. No.	Name of PSU	Stream Eligible	Packages
1	AAI	ECE/EE	16,400-3%-40,500/-
2	BHEL	EE/ME/ECE	20,600-46,500
3	ONGC Limited	EE/ME/ECE CE/CSE/IE	24,900-50,500
4	NTPC Limited	EE/ME/ECE CE/CSE/IT/IE	24,900-50,500
5	BPCL	EE/ME/ECE CE/CSE/IE	11Lac
6	Coal India Limited	EE/ME	24,900-50,500/-
7	NHPC Limited	EE/EEE CE/ME	20,600-46,500/-
8	CEL	EE/ME/ECE	6.5Lac
9	PGCIL	EE/ME/CE/ECE CSE/IT/EEE	8.15-14.44Lac
10	IOCL	EE/ME/CE/ECE CSE/IT/EEE	11Lac
11	THDC India Limited	EE/ME EEE/CE	10Lac
12	HPCL	EE/ME ECE/CE	11Lac
13	NBCC Limited	CE	16,400-40,500/-
14	MDL	EE/EEE/ME	16,400-40500/-
15	PSPCL Limited	EE/EEE	16,500-39100+ Grade Pay Rs. 5800/-
16	OPGC Limited	ME/CE/ECE EEE	4.50 LPA
17	IRCON International Limited	ME/CE/ECE EEE/EE	20,600-46,500/-
18	BNPM	EE/ME/ECE	9300-34,800+ Grade pay 4200 Rs.
19	GSECL	EE/ME	17,300-38,610/-

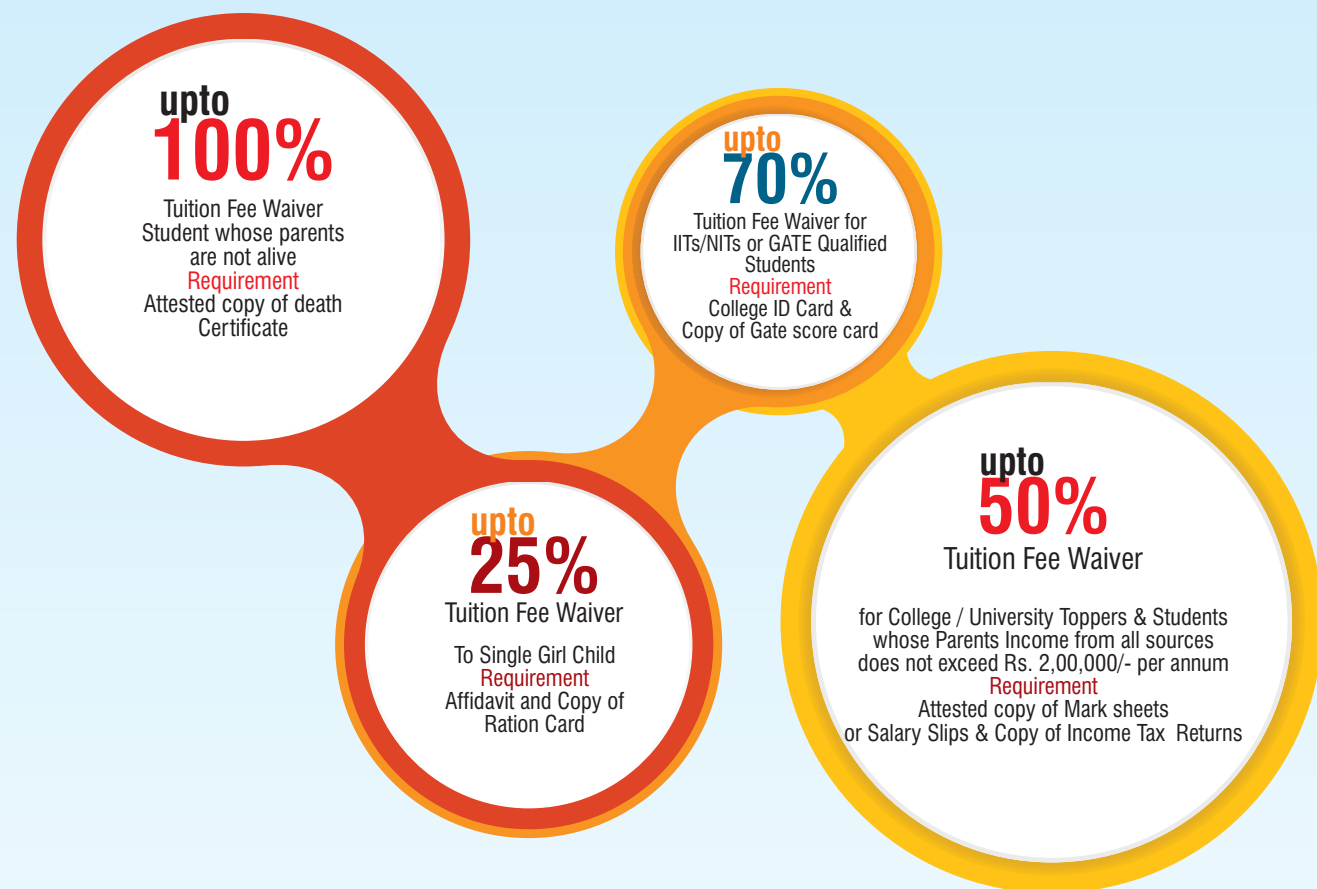
● PSU's Not through Gate ●

Sr. No.	Name of Organization	Total Posts	Stream Eligible	Packages
1	Indian Army	40	ECE/EE/CSE/IT/IN/ME/CE	15,600-21000/-
2	NPCIL	183	ME/EE/ECE/IN	15,600-21,000/-
3	Vizag Steel	119	ME/CE/EE/ECE/IN/CSE	20,600-46,500/-
4	AAI	220	CE/EE/IT	16,400-40,500/-
5	RBI	5	CE/EE	24,900-50,500/-
6	BEL	394	CSE/EE/ECE/ME	16,400-40,500/-
7	JVUNL	211	EE/ME/ECE	9300-34,800/-
8	UPPCL	149	ECE/EE/CSE	15,600-39100/-
9	WBSETCL	421	EE/ECE	15,600-39100/-
10	DFCCIL	478	ECE/IN/EE/CSE	24,900-50,500/-
11	UPCL	67	EE/ECE/ME/CE	15,600-39100/-
12	BARC	To be notify	ME/CE/CSE/ECE/EE/IN	15,600-39100/-
13	PPSC	225	ME/CE/CSE/ECE/EE/IN	15,600-39100/-
14	TANGEDCO	375	ME/CE/CSE/ECE/EE/IN	10,100-34800/-
15	NIELIT	94	EE/ECE/ME/CE	13,500-25,520/-
16	DMRC	1509	ME/CE/CSE/ECE/EE/IN	15,600-39,100/-
17	SAIL	246	ME/CE/CSE/ECE/EE/IN	7.50 Lac
18	BSNL (JTO)	3945	ECE/CSE/IT/EE	15,600-39,100/-
19	LMRC	254	EE/CE	13,500-25,520/-
20	TWADB	100	CE/ME	93,00-34,800/-
21	KMRL	188	EE/ECE/CE/ME	44,000/-
22	TSTRANSCO	206	EE/ECE/CE	41,155-63,600/-
23	BIS	97	EE/ECE/ME/CE	15,600-39,100/-
24	NPC	459	ECE/EE/CSE/IT/CE/ME	15,600-39,100/-
25	UPRVUNL	306	ECE/IN/CE	15,600-39,100/-
26	ISRO	109	CSE/IT/EE	15,600-39,100/-
27	Railways	2239	ALL	93,00-34,800/-

Education Social Responsibility

SCHOLARSHIPS & CONCESSIONS

GATE REVOLUTION offers a large number of Scholarships & Concessions to meritorious, deserving and needy students and help them to aim for higher education.



Note: The candidates must maintain good academic performance if candidate will not maintain good academic performance then the concession/ scholarship will be withdrawn.

Important Notes:

- The Student is eligible for availing only one Scholarship/ concession at one time
- For availing any of the mentioned Scholarship/ Concessions, the student must give his/her application in the name of the Director along with relevant document.
- All the given Scholarship/ concessions are valid only for Indian Nationals.

Gate Revolution's Countable Performance

Within 4 Years, We Have Proved Our

Leadership In GATE

Remarkable Selections In IITs, NITs & PSUs & In this Region We have become first choice among GATE Aspirants



With in four year of inception we produced remarkable performance to GATE community with 1762 selections out of 2100 students.

What is JE exam?

JE exam is conducted by various technical departments like SSC (Staff Selection Commission) to recruit Junior Engineers (JE) in group 'B' non gazetted posts in central Govt. organizations in India as central water (CWC), central public works department (CPWD), Department of post, military Engineer services (MES) etc. The minimum qualification needs to appear in this exam is Diploma (or equivalent qualification) in relevant discipline of Engineering i.e. Civil, electrical & mechanical. Now these days there is boom of Civil Engineering Govt. Jobs and getting a Govt. Job is the dream idolized by most of the people. We are here to fulfil your dreams. We give coaching for the post of Sub Divisional Engineer (SDE) / Assistant Engineer (AE), Junior Engineer (JE) and Junior Draftsman of Civil Engineering Jobs coming in various states.

ELIGIBILITY OF JE/SDE

Sub Divisional / Assistant Engineer / Sectional Engineer
Bachelor of Engineering / Technology Degree in Civil, from a recognized University or institutions or equivalent.
Junior Engineer
Diploma in Engineering / Technology Degree in Civil, from a recognized University or institutions or equivalent.

JE/SDE DEPARTMENTS

- PWD (B&R) BUILDINGS AND ROADS
- IRRIGATION DEPTT.
- PUBLIC HEALTH
- WATER SUPPLY AND SEWERAGE BOARD
- BHAKRA BEAM MANAGEMENT BOARD (BBMB)
- URBAN PLANNING DEPTT.
- ELECTRICITY BOARD (PSPCL)
- MANDI BOARD
- MARKETING BOARD
- MUNICIPAL CORPORATION
- LOCAL BODIES
- TOURISM BOARD
- EDUCATION DEPTT.
- POLLUTION CONTROL BOARD
- RAILWAY DEPTT.
- MILITARY ENGINEERING SERVICES (MES)
- CENTRAL PUBLIC WORKS DEPTT, (CPWD)
- DELHI METRO RAIL CORPORATION (DMRC)

**“Arise, awake, and stop
not till the goal is reached”**
-Swami Vivekananda



PATTERN OF SSC- JE EXAM:

Description of Exam and Question Paper

- There shall be two papers in total in the examination.
- According to the SSC JE Exam Pattern 2015, Paper 1 will be objective type and Paper 2 will be conventional type
- Candidates who are attempting for the post of Junior Engineer (Civil), Junior Engineer (Quantity Surveying & Contract) should attempt Part A (Civil & Structural) of Paper I and Paper II and those who are attempting for the post of Junior Engineer (Electrical) should attempt Part B (Electrical) and the candidates who are appearing for the post of Junior Engineer (Mechanical) have to attempt Part C (Mechanical) of Paper I and Paper II.
- Answer sheet of Paper 2 shall be checked if Paper 1 is qualified by the respective candidate.
- For each incorrect answer, ¼ marks will be deducted (in both of the papers).

Paper 1

- Questions in this paper will be of objective type.
- Candidates will have multiple options of answers against a question.
- They have to darken the circle against correct response to fetch marks.
- As per the SSC Junior Engineer 2015 Exam Pattern, duration of this exam is 2 hours.

Paper 2

- Questions in this paper will be descriptive in nature.
- Candidates have to write the answers.
- Duration of this exam is 2 hours.

Written Exam Structure (Tabular representation)

Papers	Subject and Parts	Maximum Marks Allotted	Duration and Timings
Paper 1 – Objective type (candidates will be provided OMR Answer Sheets to mark their response)	(i) General Intelligence & Reasoning (ii) General Awareness (iii) Part –A General Engineering (Civil & Structural) OR Part-B General Engineering (Electrical) OR Part-C General Engineering (Mechanical)	50 50 100	2 hours (10:00 am to 12:00 noon)
Paper 2 – Conventional/Descriptive Type	Part –A General Engineering (Civil & Structural) OR Part – B General Engineering (Electrical) OR Part-C General Engineering (Mechanical)	300	2 hours (2:00 pm to 4:00 pm)

BSNL JTO - BSNL Junior Telecom Officers

This exam is conducted to recruit the students for the post of Junior Telecom Officers. Education Qualification for applying in JTO-Telecom: - You must possess Bachelor of Engineering/Bachelor of Technology degree in any of the following disciplines from a recognized engineering college/university:

- Telecommunication
- Electronics
- Radio
- Computer
- Electrical
- Information Technology

Junior Telecom Officers are an important work requirement of a telecom organization like BSNL. There is a need for these officers in various territorial as well as functioning circles of the company. In BSNL JTO's are selected for selected from three disciplines of telecom, civil and electrical engineering. Selection of candidates for this post is done through a common entrance examination. Candidates who have completed graduation in engineering and technology in the following disciplines are eligible to apply for this exam. Aspirants are required to obtain the minimum qualifying marks as well as total qualifying marks in order to pass BSNL JTO.

Age Limit

Age should not be more than 30 years of age on the closing date for receipt of applications.

Paper Pattern for BSNL JTO

The examination will be of three hours duration with one question paper containing the following three sections:

For JTOs (Telecom)

- ◇ Section-I : Engineering Stream : 50 questions
- ◇ Section-II : Engineering Stream : 50 questions
- ◇ Section-III : General Ability test : 20 questions

For JTOs (Electrical)

- Section-I : Electrical Engineering Stream:50 questions
- Section-II : Electrical Engineering Stream: 50 questions
- Section-III : General Awareness: 20 questions

The question paper will be fully objective type with multiple options as answers to each question. The standard of papers in Engineering subjects will be that of Engineering examination of an Indian university.

Syllabus for BSNL JTO Exam

SECTION-I

1. Materials and Components - Structure and properties of Electronic Engineering materials, Conductors, Semiconductors and Insulators, Magnetic, Ferroelectric, Piezoelectric, Ceramic, Optical and Superconducting materials. Passive components and characteristics, Resistors, Capacitors and Inductors; ferrites, Quartz crystal, Ceramic resonators, Electromagnetic and Electromechanical components.
2. Physical Electronics, Electron Devices and ICs - Electrons and holes in Semiconductors, Carrier Statistics, Mechanics of current flow in a semi-conductor, Hall effect; Junction theory; Different types of diodes and their characteristics; Bipolar Junction transistor, Field effect transistors, Power switching devices like SCRs, CTOs, power MOSFETs; Basics of ICs-bipolar, MOS and CMOS types; basics of Opto Electronics.

3. Network theory = Network analysis techniques: Network theorem, transient and steady state sinusoidal response, Transmission criteria: delay and rise time Elmore's and other definition, effect of cascading. Elements of network synthesis.
4. Electromagnetic Theory - Transmission lines: basic theory, standing waves, matching applications, microstrip lines; Elements of antenna theory.
5. Electronic Measurements and instrumentation Basic concepts, standards and error analysis; Measurements of basic electrical quantities and parameters; Electronic measuring instruments and their principles of working: analog and digital, comparison, Characteristics, applications. Transducers; Electronic measurements of non – electrical quantities like temperature, Pressure, humidity etc. Basics of telemetry for industrial use
6. Power Electronics - Power semiconductor devices, Thyristor, Power transistor, MOSFETS, Characteristics and operation. AC to DC convertors; 1 – Phase and 3 – phase DC to DC Convertors AC regulators. Thyristor controlled reactors, switched capacitor networks. Inverters: Single – phase and 3 – Phase. Pulse width modulation. Sinusoidal modulation with uniform sampling. Switched mode power supplies.

SECTION - II

1. Analog Electronic Circuits - Transistor biasing and stabilization, Small Signal analysis. Power amplifiers. Frequency response, Wide band techniques, Feedback amplifiers. Oscillators. Rectifiers and power supplies. Operational Amplifier, other linear integrated circuits and applications. Pulse shaping circuits and waveform generators.
2. Digital Electronic Circuits - Transistor as a switching element; Boolean algebra, simplification of Boolean functions, Karnaugh Map and applications, IC Logic gates and their characteristics; IC logic families; DTL, TTL, ECL, NMOS, PMOS and CMOS gates and their comparison; Combinational logic circuits; half adder, full adder; Digital Comparator; Multiplexer Demultiplexer, ROM and their applications. Flip-flops, R-S, J-K, D and T flip-flops; Different types of counters and registers; waveform generators, A/D and D/A convertors, Semiconductor memories.
3. Control systems - Transient and steady state response of control systems; Effect of feedback on stability and sensitivity, Root locus techniques; Frequency response analysis, Concepts of gain and phase margins; Constant-M and Constant-N Nichol's Chart, Approximation of transient response from Constant-N Nichol's Chart; Approximation of transient response from closed loop frequency response, design of Control systems, Compensators; Industrial controllers.
4. Communication systems - Basic information theory; Modulation and detection in analogue and digital systems; Sampling and data reconstruction, Quantization & Coding; Time division and frequency division multiplexing; Equalisation, Optical communication; in free space & fibre optic; propagation of signals at HF, VHF, UHF and microwave frequency; Satellite communication.
5. Microwave Engineering - Microwave Tubes and solid state devices, Microwave generation and amplifiers, Waveguides and other Microwave Components and Circuits, Microstrip circuits, microwave antennas, Microwave Measurements, MASERS LASERS; Microwave propagation, Microwave Communication Systems-terrestrial and satellite based.
6. Computer Engineering - Number Systems; Data representation, Programming; Elements of a high level programming language PASCAL/C; use of basic data structures; Fundamentals of computer architecture processor design; Control unit design; Memory organization ; Personal computers and their typical uses. 7. Microprocessors - Microprocessor architecture – Instruction set and simple assembly language programming. Interfacing for memory and I/O. applications of Microprocessors in Telecommunications and power system.

SECTION III

General Ability Test -

The candidates comprehension and understanding of General English shall be tested through simple exercises. Questions on knowledge of current events and of such matter of everyday observation and experience in their scientific aspects as may be expected of an educated person. Questions will also be included on events and developments in Telecommunications, History of India and Geography.



• Testimonial •



Faculties are very helpful and supportive.
Tests helped me to get the good rank.

VIREN SANGWAN
(IIT BOMBAY)

AIR
3
PI

I would like to give the credit of my success to my parents and GATE REVOLUTION. I got excellent faculties here. The way of teaching method was very effective.



AIR
3
EE
ANKUSH
(IISc Bangalore)



I attended all the tests & test series, which was very useful and helpful, just because of it I worked more on my weaker subjects.

VAIBHAV GUPTA

AIR
21
CE

Major reason of my success was qualitative faculties and study material, hard work and bit of luck. I got this good Rank.



AIR
29
CE
RISHABH GARG



I got this achievement under the guidance of Gate Revolution study material was well organized which gave me direction

AJEET KUMAR

AIR
33
ME

I got tough competition from other students but Gate Revolution motivated me to practice more and more



AIR
45
CSE
Abhisek Sethi
IIT BOMBAY

• Testimonial •



The Faculty at GATE REVOLUTION had played a important role for my success. The Faculty used to give guidance time to time

Megha Thukral
IOCL

AIR
62
CSE

The teaching pedagogy was very effective. Tests increased confidence level and I got good rank.



AIR
63
ECE
Deeksha
IOCL



They taught me "keep your basics and concepts strong to have good grip on the subjects"

Navneet Singh
IOCL

AIR
113
EE

I enjoyed learning subjects here. The result of that I got good Rank



AIR
177
ECE
Navneet Kaur
ISRO



Gate Revolution made my preparation very effective. Tests increased my confidence level and I got good Rank

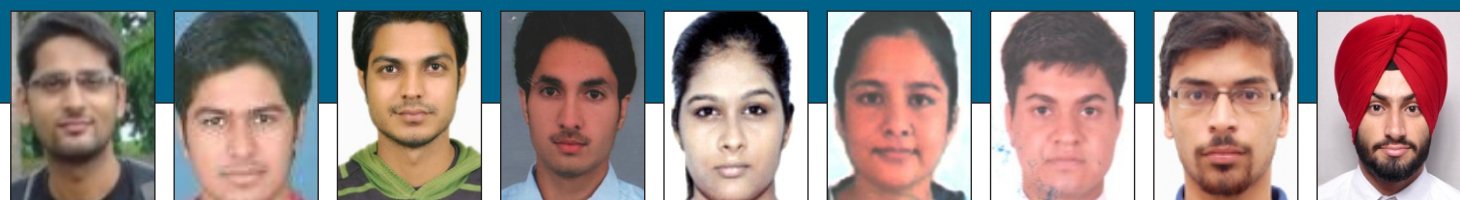
Jagpal Singh
ONGC
ME

The way of teaching was effective after that I don't have any doubts. They guided me for counseling and interviews.

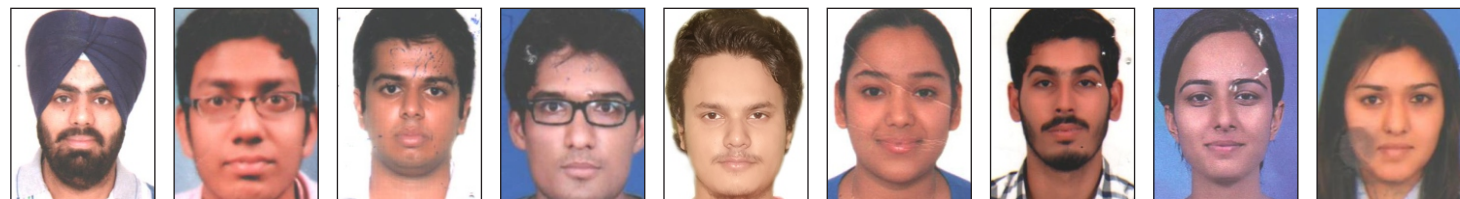


Ansh Jain
SAIL
EE

Our Toppers



Mandeep Dhand (AIR-1044) Naveen Dahiya (AIR-1425) Parveen Dahiya (AIR-1300) Mohinder Verma HAL Diksha Gupta 99.91% Karan Vijay 99.89% Mayur Sharma 99.82% Aditya Garg 99.74% Rajveer Singh 99.74%



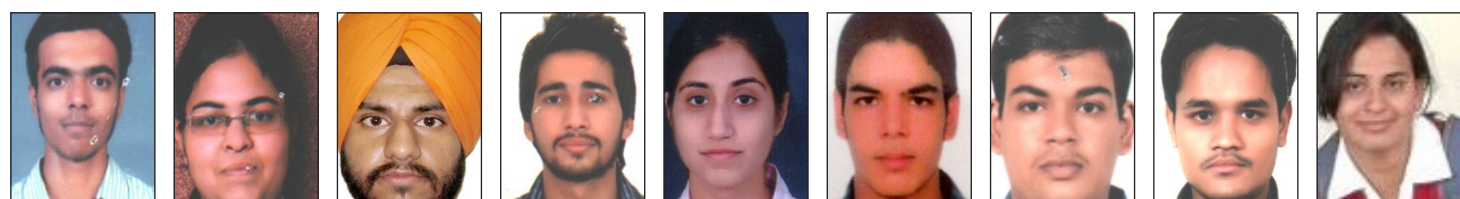
Gullal Cheema 99.7% Ansh Jain 99.5% Abhinav Kapila 99.4% Shubham 99.36% Pankaj Pandey 99.35% Divyansha 99.3% Amandeep 99.1% Chamonjot Kaur 99% Neeraj Singla 98.99%



Navreetinder Kaur 98.99% Sahil Gupta 98.96% Jagpal Singh 98.9% Rittick Biswas 98.9% Rajesh Kumar 98.89% Pankaj Verma 98.8% Alisha Aggarwal 98.84% Divya Rani 98.81% Palak 98.73%



Amit Godara 98.61% Gunbir Singh 98.61% Jijivisha 98.56% Sanjeev Sharma 98.55% Ankush Dhadwal 98.43% Abhishek Gupta 98.3% Nikhil Verma 98.28% Gaurav Badhwar 98.25% Anamika 98.2%



Gagandeep Kaushik 98.2% Dipali 98.2% Japjit Singh 98.2% Akashdeep Singh 98.1% Ishani 98.1% Neeraj Garg 98.07% Saurabh Sharma 98.06% Lavesh Bansal 98% Nidhi 97.92%



Rhythm Arora 97.91% Kushagra Sagar 97.9% Mannat Jot 97.9% Neha Garg 97.9% Akshay Narula 97.9% Navneet Kumar 97.88% Kavita 97.8% Jasmine Kaur 97.8% Shama 97.8%



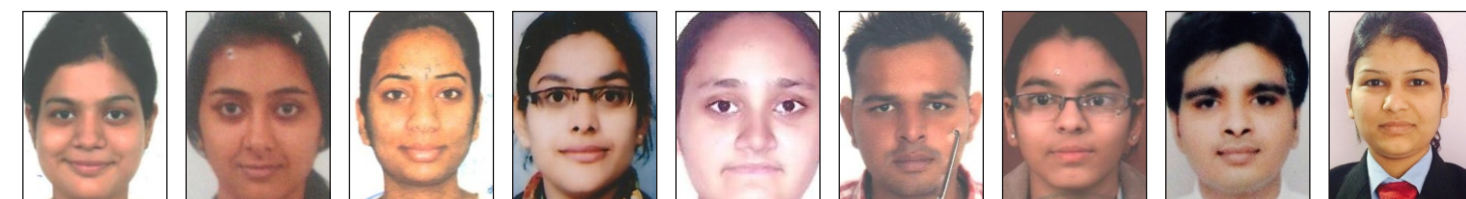
Jatin 97.76% Pranav Sharma 97.67% Pooja 97% Harinderbir Kaur 97.65% Sonu 97.62% Ramandeep Singh 97.62% Karan Shah 97.6% Isha Sidana 97.6% Priya Goyal 97.6%



Asees 97.59% Mandeep Kumar 97.55% Pawan Thakur 96.86% Davinder 97.52% Amandeep Singh 97.5% Manveer Kaur 97.5% Khushboo Goyal 97.5% Priya Bali 97.44% Monika 97.40%



Nainika Saini 97.4% Sushil 97.34% Jaspreet Kaur 97.26% Tania Gupta 97.15% Gagandeep Singh 97.11% Kulwinder Kaur 97.1% Sharanjeet Kaur 96.99% Amol Gupta 96.9% Gaurav Garg 96.97%



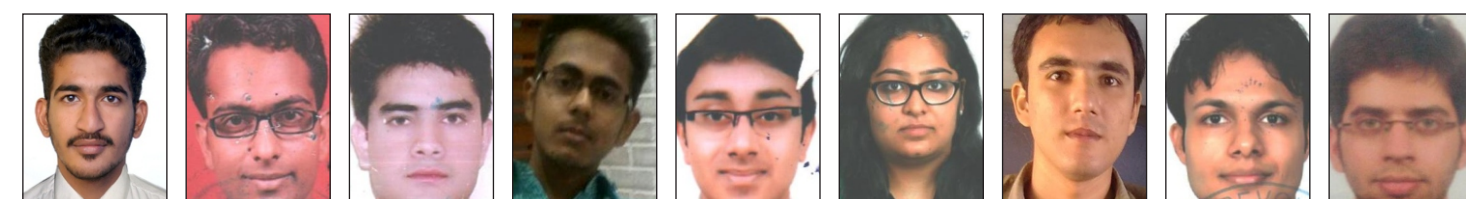
Deepakshi 96.88% Ravneet Kaur 96.87% Navdeep Kaur 96.81% Shubhani Aggarwal 96.57% Sharry Sharma 96.52% Raman Bhakri 96.50% Nitika Gupta 96.42% Sourav Singla 96.35% Sakshi Garg 96.33%



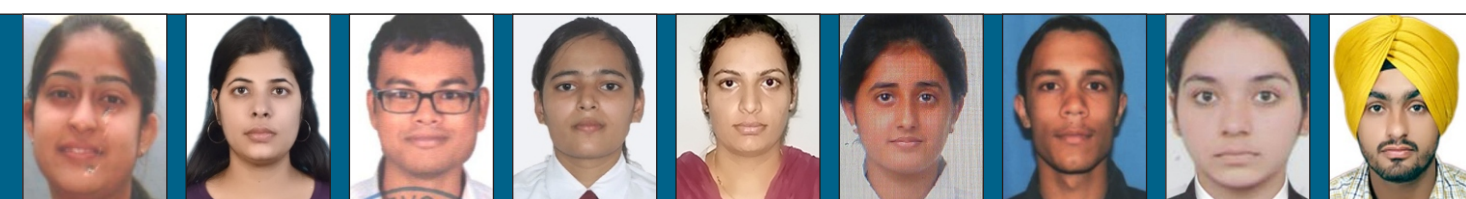
Heena Singla 96.3% Puneet Goyal 96.29% Aarashdeep Singh 96.22% Anterpreet Kaur 96.12% Sapna Rathore 96.10% Rahul Manrow 96.08% Harnoor Kaur 96.02% Ayushi Garg 96% Sukhjit Kaur 96%



Tejveer Choudhary 95.99% Sneha 95.92% Uttkarha 95.89% Rahul Sharma 95.8% Navneet Kaur 95.83% Jaspreet Singh 95.83% Jaspreet Kaur 95.78% Harman Singh 95.77% Satgur Singh 95.77%



Puneet Tandon 95.7% Ashish Kumar 95.65% Pankaj Thakur 95.42% Pearl Dhingra 95.25% Mainak Pal 95.15% Garima Gupta 95.06% Varinder Singh Heer 95.05% Manmeet Goyal 95.02% Ankush Satpal 95%



Jasmine Dhunna 95% Neha 95.0% Nipun Sharma 95% Sulbha Goel 95% Randeep Kaur 94.94% Snehal Kaur 94.90% Sagar 94.89% Bhupinder Kaur 94.8% Anudeep Singh 94.8%

& many more...