

Available Specializations for GATE EC Paper at IITs and IISc

Sr. No	Name of the Institute	GATE Paper	Specialization	Eligibility	Website
1	IIT(Bombay)	EC	Communication Engineering	First class or 60% marks (55% marks for SC/ST) in Bachelor's degree in Computer Science and Engineering, Electrical Engineering, Electronics Engineering, Telecommunications Engineering, Engineering Physics OR First class or 60% marks (55% marks for SC/ST) in Master's degree in Physics (with specialization in Electronics) or Electronic Sciences with valid GATE score in CS, EC, EE or PH.	www.iitb.ac.in
2	IIT(Bombay)	EC	Control & Computing	First class or 60% marks (55% marks for SC/ST) in Bachelor's degree in Aeronautical/Aerospace Engineering, Chemical Engineering, Computer Science and Engineering, Electrical Engineering, Electronics Engineering, Telecommunication Engineering, Instrumentation Engineering, Mechanical Engineering, Metallurgical Engineering, Engineering Physics OR First class or 60% marks (55% marks for SC/ST) in Master's degree in Physics, Mathematics with valid GATE score in CH, CS, EC, EE, IN, ME, MT, PH, MA, XE.	
3	IIT(Bombay)	EC	Power Electronics & Power Systems	First class or 60% marks (55% marks for SC/ST) in Bachelor's degree in Computer Science and Engineering, Electrical Engineering, Electronics Engineering, Telecommunication Engineering, Instrumentation Engineering with valid GATE score in CS, EC, EE or IN.	
4	IIT(Bombay)	EC	Microelectronics	First class or 60% marks (55% marks for SC/ST) in Bachelor's degree in Computer Science, Electrical Engineering, Electronics Engineering, Telecommunication Engineering, Engineering Physics, Instrumentation Engineering OR First class or 60% marks (55% marks for SC/ST) in Master's degree in Physics or Electronic Sciences with valid GATE score in CS, EC, EE, IN or PH.	
5	IIT(Bombay)	EC	Electronic Systems	First class or 60% marks (55% marks for SC/ST) in Bachelor's degree in Biomedical Engineering, Electrical Engineering, Electronics Engineering, Instrumentation Engineering, Telecommunication Engineering, Engineering Physics OR First class or 60% marks (55% marks for SC/ST) in Master's degree in Electronics/Physics (with specialization in Electronics) with valid GATE score in EC, EE, IN or PH.	
6	IIT(Bombay)	EC	Dynamics & Control	First class or 60% marks (55% marks for SC/ST) in Bachelor's degree in Mechanical Engg./ Electrical / Electronics/Instrumentation Engg. with valid GATE score in ME / EE/ EC / IN.	

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7	IIT(Bombay)	EC	Systems Design and Engineering	First class or 60% marks (55% marks for SC/ST) in B.E./ B.Tech. (or equivalent) in Aerospace with valid GATE score in any paper. Civil (Or allied branches) with valid GATE score in paper CE Mechanical with valid GATE score in paper ME Computer Science with valid GATE score in paper CS Electrical, Electronics (Or allied branches) with valid GATE score in EE or EC papers respectively	
8	IIT(DELHI)	EC	Radio Frequency Design and Technology	First class or 60% marks (55% marks for SC/ST) in B.Tech./B.E. in Electronics/Communication/Electrical Engineering or related areas with a CGPA 6.75 or 60% marks with GATE.	<i>www.iitd.ac.in</i>
9	IIT(DELHI)	EC	Computer Science & Engineering	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech. in CS/IT/SE/EE/EC or Allied branches,AMIE Section "A" with valid GATE score	
10	IIT(DELHI)	EC	Communication Engineering	First class or 60% marks (55% marks for SC/ST) in B.Tech./ M.Sc./AMIE Section "A".in EC/EE/IN/CS or equivalent with a CGPA 6.75 or 75% marks in aggregate with GATE.	
11	IIT(DELHI)	EC	Computer Technology		
12	IIT(DELHI)	EC	Control & Automation		
13	IIT(DELHI)	EC	Integrated Electronics & Circuits		
14	IIT(DELHI)	EC	Power Electronics, Electrical Machines & Drives		
15	IIT(DELHI)	EC	Power Systems Engg.		
16	IIT(DELHI)	EC	Aerospace Engineering	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech. in Aerospace/Aeronautical, ME, Civil, CE, Naval Architecture, EE, ETRX/EC Automobile, Metallurgy/Metallurgy & Material Science with valid GATE score can apply for M.Tech. program.	
17	IIT(MADRAS)	EC	Clinical Engineering	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech.& of GATE subject (AE, BT (was XL earlier), CE, CH, CS, EC, EE, IN, IT, ME, MN, MT, PI, TF, XE) and score	
18	IIT(MADRAS)	EC	Communication Systems	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech./M.Sc.in EC/EE/CS/IT/IN or allied branches from educational Institutions approved byAICTE/Government	
19	IIT(MADRAS)	EC	Power Systems and Instrumentations		
20	IIT(MADRAS)	EC	Microelectronics		
21	IIT(MADRAS)	EC	Mathematics		

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22	IIT(KANPUR)	EC	Aerospace Engineering	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech/B.Sc.(Engg.)/M.Sc. in Aerospace/Aeronautical, ME, Civil, Chemical, Naval Architecture, EE, EITRX/EXTC and communication, Automobile, Metallurgy/Metallurgy & Material Science	www.iitk.ac.in
23	IIT(KANPUR)	EC	Computer Science & Engineering	First class or 60% marks (55% marks for SC/ST) in minimum of 55 percent marks or a CPI (Cumulative Performance Index) of 5.5 (on a 10.0 scale), who have appeared in GATE in EE, EC, or Maths, and have an exceptionally high score.	
24	IIT(KANPUR)	EC	Power & Control	First class or 60% marks (55% marks for SC/ST) in B.Tech./B.E. in Engg.&Tech.inEE,EC,IN.	
25	IIT(KANPUR)	EC	Signal Processing, Communications & Networks		
26	IIT(KANPUR)	EC	RF Engineering and Photonics		
27	IIT(KANPUR)	EC	Microelectronics, VLSI & Display Technology.		
28	IIT (KHARAGPUR)	EC	Medical Imaging and Image analysis	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech/M.Sc in BM, CS, EC, EE, EN, IN degrees (eg. AMIE) and having a valid GATE score.IIT Btech's having CGPA score 8.00 or above may be admitted without GATE score	
29	IIT (KHARAGPUR)	EC	Solid State Technology	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech/M.Sc in PH,EE,EC,EN,EP,RP,PO,MS,ES,CS,CY degrees (eg. AMIE) and having a valid GATE score.IIT Btech's having CGPA score 8.00 or above may be admitted without GATE score	
30	IIT (KHARAGPUR)	EC	Reliability Engineering.	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech/M.Sc in AE,CE,CH,CS,IT,EC,EE,IN,ME, MN,PI degrees (eg. AMIE) and having a valid GATE score.IIT Btech's having CGPA score 8.00 or above may be admitted without	
31	IIT (KHARAGPUR)	EC	Fibre Optics and Light wave Engineering	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech in EC,EE,ES or equivalent professional degrees (eg. AMIE) and having a valid GATE score.IIT Btech's having CGPA score 8.00 or above may be admitted without GATE score.	
32	IIT (KHARAGPUR)	EC	Micro Electronics and VLSI Design		
33	IIT (KHARAGPUR)	EC	RF and Microwave Engineering		
34	IIT (KHARAGPUR)	EC	Telecommunication Systems Engineering.		
35	IIT (KHARAGPUR)	EC	Visual Information & Embedded Systems Engineering.		

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36	IIT (KHARAGPUR)	EC	Machine Drives & Power Electronics	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech/M.Sc. in EC,EE or equivalent professional degrees (eg. AMIE) and having a valid GATE score.IIT Btech's having CGPA score 8.00 or above may be admitted without GATE score.	www.iitkgp.ac.in
37	IIT (KHARAGPUR)	EC	Control System Engineering	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech/M.Sc. in EE,CSE equivalent professional degrees (eg. AMIE) and having a valid GATE score.IIT Btech's having CGPA score 8.00 or above may be admitted without GATE score.	
38	IIT (KHARAGPUR)	EC	Power Systems Engg.	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech/M.Sc. in EE,EN equivalent professional degrees (eg. AMIE) and having a valid GATE score.IIT Btech's having CGPA score 8.00 or above may be admitted without GATE score.	
39	IIT (KHARAGPUR)	EC	Instrumentation	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech/M.Sc. in EC,EE,EN,IN,PH equivalent professional degrees (eg. AMIE) and having a valid GATE score.IIT Btech's having CGPA score 8.00 or above may be admitted without GATE score.	
40	IIT (KHARAGPUR)	EC	Computational Seismology	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech/M.Sc. in AE, AU, AT, CE, CA, CS, EA, EE, ES, EC, EN, EP, EV, GG, IE, IT, IN, MF, MA, ME, MR, MN, NA, OR, PE, PC, PH, PR, PI, RP, ST degrees (eg. AMIE) and having a valid GATE score.IIT Btech's having CGPA score 8.00 or above may be admitted without GATE score.	
41	IIT (KHARAGPUR)	EC	Media and Sound Engineering	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech/M.Sc. in CS,EC,IT,IN degrees (eg. AMIE) and having a valid GATE score.IIT Btech's having CGPA score 8.00 or above may be admitted without GATE score.	
42	IIT (KHARAGPUR)	EC	Computer Sc. and Data Processing	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech/M.Sc.in EC,EE,MA,PH degrees (eg. AMIE) and having a valid GATE score.IIT Btech's having CGPA score 8.00 or above may be admitted without GATE score.	
43	IIT(GUWAHATI)	EC	Digital Signal Processing	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech.or M.Sc.with a minimum 60%marks CGPA of 6.75 or equivalent in EE and EC And valid GATE Score.	
44	IIT(GUWAHATI)	EC	VLSI		
45	IIT(GUWAHATI)	EC	Communication Engineering		
46	IIT(GUWAHATI)	EC	Applied Control		
47	IIT (ROOKEE)	EC	Alternate Hydro Energy Systems	B.E./B.Tech./M.Sc.Civil/ME/EE/EC/CE/CS/Agri/Environmental ,and valid GATE Score	
48	IIT (ROOKEE)	EC	Measurement & Instrumentation	B.E./B.Tech./M.Sc. In allied branches from educational	

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49	IIT (ROOKEE)	EC	System Engg. & Operations Research	Institutions approved by AICTE/Government and A valid GATE score in EC/EE/IN	www. iit r.ac.in	
50	IIT (ROOKEE)	EC	Control & Guidance	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech.or M.Sc.with a minimum 60%marks CGPA of 6.75 A vaild GATE score in EC/EE/IN		
51	IIT (ROOKEE)	EC	Computer Science & Engineering	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech.or M.Sc.with a minimum 60%marks CGPA of 6.75 A vaild GATE score CS/EC/EE/IT		
52	IIT (ROOKEE)	EC	Communication Systems	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech.or M.Sc. with a minimum 60%marks CGPA of 6.75 A vaild GATE score EC		
53	IIT (ROOKEE)	EC	Information Technology	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech.or M.Sc.with a minimum 60%marks CGPA of 6.75 A vaild GATE score CS/EC/EE/IT		
54	IIT (ROOKEE)	EC	RF and Microwave Engineering	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech.or M.Sc.with a minimum 60%marks CGPA of 6.75 A vaild GATE score EC		
55	IIT (ROOKEE)	EC	Semiconductor Devices & VLSI Technology	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech.or M.Sc.with a minimum 60%marks CGPA of 6.75 B.Tech. (Met.& Mat.Engg./ME/EC/ETRX/CE/Pulp & Paper/Biotech.or equivalent;M.Sc.(Phy/Chem/ Biotech),or equiv with Maths at 10+2 or higher level.		
56	IIT (ROOKEE)	EC	Nanotechnology	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech.or M.Sc.with a minimum 60%marks CGPA of 6.75 B.E./B.Tech.in Civil/ME/EE/EC		
57	IIT (ROOKEE)	EC	Water Resources devp.	First class or 60% marks (55% marks for SC/ST) in BE & B.Tech .A Valid GATE Aerospace,Civil, Chemical, EC, EE, ME, Engg. Science / M.Sc. with GATE in Geology & Geophysics,Physics.GATE, UGC-CSIR NET		www. iisc .ernet.in
58	IISc (BANGLORE)	EC	Climate Science (M.Sc. Engg.)	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech A Vaild GATE score in EC/EE/IN/Engg. Physics,ETRX		
59	IISc (BANGLORE)	EC	M.E (Telecom)	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech A Vaild GATE score in EC/EE/IN/Engg. Physics,ETRX		
60	IISc (BANGLORE)	EC	M.E (Signal Processing) Jointly with the Department of EE	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech A Vaild GATE score in EC/EE/IN/Engg. Physics,ETRX		

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			<u>ME programs</u>		
61	IISc (BANGLORE)	EC	Aerospace Engineering	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech A Valid GATE score in AE,ME,CE,CH,EE,EC	<i>www.iisc.ernet.in</i>
62	IISc (BANGLORE)	EC	Telecommunication Systems Engineering.	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech BE / B Tech or equivalent in EC,EE,B Sc with Grad. IETE (EC), AMIE EC	
63	IISc (BANGLORE)	EC	Microelectronic Systems	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech BE/ B.Tech. in EE,EC,CS,IN,B Sc or equivalent with AMIE in EE,EC	
64	IISc (BANGLORE)	EC	Signal Processing	First class or 60% marks (55% marks for SC/ST) in B.E./B.Tech BE / B Tech in EE,Ecor B.Sc with AMIE in EE,Ecor Graduate in IETE EC	
65	IISc (BANGLORE)	EC	Systems Science & Automation	First class or 60% marks (55% marks for SC/ST) in B.E./B.TechBE/ B.Tech. in CS,EE,ECIN,ME,Chemical,B Sc with AMIE in CH,EC,EE,ME,or Grad. IETE (EC), AMIICHe (CH).	