



# SCIENCE-A GROUP

## (Engineering/Technology/Architecture)

### AVAILABLE DEGREES

| Degree                                         | Duration |
|------------------------------------------------|----------|
| B. Tech. (Bachelor of Technology)              | 4 Years  |
| B. E. (Bachelor of Engineering)                | 4 Years  |
| B.S. (Bachelor of Science)                     | 4 Years  |
| B Ftech. (Bachelor of Fashion Technology)      | 4 Years  |
| B. Arch. (Bachelor of Architecture)            | 4 Years  |
| B. Plan (Bachelor of Planning)                 | 4 Years  |
| Dual Programs in Engineering (B.Tech.+M.Tech.) | 6 Years  |

### SPECIALISATIONS BE / B Tech. in

- Aerospace
- Agricultural & Food
- Architectural
- Automobile
- Biological Sciences
- Biotechnology
- Biochemical
- Computer Science
- Ceramic
- Chemical
- Civil
- Electrical

- Electronics
- Environmental
- Electronics & Communication
- Electronics & Electrical Communication
- Electronics & Electrical
- Electronics & Instrumentation
- Engineering Physics
- Engineering Science
- Industrial & Systems
- Instrumentation
- Materials Science
- Metallurgical

- Mechanical
- Mineral
- Mining
- Manufacturing Science
- Mathematics & Computing
- Mining Machinery
- Naval Architecture
- Ocean
- Petroleum
- Production
- Polymer Science
- Plastic
- Textile Engineering Etc.

### CAREER PROSPECTS

|                                                 |                                 |                          |
|-------------------------------------------------|---------------------------------|--------------------------|
| Higher Studies in Management or Technical field | Prepare for Civil Service Exams | Job in Technical Company |
| Start own Business / Technical Venture          | Research and Academics          | Join Armed Forces        |

### Colleges with admissions based on entrance exams

| Top IITs in India                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Top IIITs in India                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Top NITs in India                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                               | List of other Top Colleges in India                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | List of other Top Colleges in Gujarat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <ul style="list-style-type: none"> <li>• Mumbai</li> <li>• Roorkee</li> <li>• Delhi</li> <li>• Kanpur</li> <li>• Madras</li> <li>• Guwahati</li> <li>• Kharagpur</li> <li>• Hyderabad</li> <li>• Varanasi</li> <li>• Ropar</li> <li>• Bhubaneswar</li> <li>• Mandi</li> <li>• Patna</li> <li>• Gandhinagar</li> <li>• Indore</li> <li>• Jodhpur</li> <li>• Palakkad</li> <li>• Tirupati</li> <li>• Dhanbad</li> <li>• Bhilai</li> <li>• Goa</li> <li>• Jammu</li> <li>• Dharwad</li> </ul> | <ul style="list-style-type: none"> <li>• Gwalior</li> <li>• Allahabad</li> <li>• Kancheepuram</li> <li>• Jabalpur</li> <li>• Kurnool</li> <li>• Chittoor</li> <li>• Guwahati</li> <li>• Kalyani</li> <li>• Una</li> <li>• Vadodara</li> <li>• Kota</li> <li>• Tiruchirappalli</li> <li>• Sonapat</li> <li>• Senapati</li> <li>• Lucknow</li> <li>• Kottayam</li> <li>• Dharward</li> <li>• Pune</li> <li>• Bhopal</li> <li>• Agartala</li> <li>• Kakinada</li> <li>• Nagpur</li> <li>• Ranchi</li> <li>• Surat</li> </ul> | <ul style="list-style-type: none"> <li>• Allahabad</li> <li>• Bhopal</li> <li>• Calicut</li> <li>• Durgapur</li> <li>• Hamirpur</li> <li>• Jaipur</li> <li>• Jalandhar</li> <li>• Jamshedpur</li> <li>• Kurukshetra</li> <li>• Nagpur</li> <li>• Patna</li> <li>• Raipur</li> <li>• Rourkela</li> <li>• Silchar</li> <li>• Srinagar</li> <li>• Surat</li> <li>• Surathkal</li> <li>• Tiruchirappalli</li> </ul> | <ul style="list-style-type: none"> <li>• Warangal</li> <li>• Arunachal Pradesh (Yupia)</li> <li>• Sikkim</li> <li>• Goa</li> <li>• Meghalaya</li> <li>• Nagaland</li> <li>• Manipur</li> <li>• Mizoram</li> <li>• Uttarakhand</li> <li>• Delhi</li> <li>• Puducherry</li> <li>• Agartala</li> <li>• Andhra Pradesh</li> </ul> | <ul style="list-style-type: none"> <li>• BITS Pilani</li> <li>• Delhi College of Engineering</li> <li>• VIT, Vellore</li> <li>• PSG Technology Coimbatore</li> <li>• National Institute of Engineering, Mysore</li> <li>• BIT Ranchi</li> <li>• NSIT, New Delhi</li> <li>• College of Engineering, Pune</li> <li>• Faculty of Engineering &amp; Technology, Jamia Millia Islamia</li> <li>• VJTI, Mumbai</li> <li>• KJ Somaiya, Mumbai</li> <li>• S P College, Mumbai</li> <li>• ISM Dhanbad</li> <li>• College of Engineering</li> <li>• Guindy, Chennai</li> <li>• PEC Uni. Chandigarh</li> <li>• Manipal Institute of Technology, Manipal</li> <li>• HBTI Kanpur</li> <li>• Thapar University, Patiala</li> <li>• MIT Pune</li> </ul> | <ul style="list-style-type: none"> <li>• IIT, Gandhinagar</li> <li>• SVNIT, Surat</li> <li>• Nirma, Ahmedabad</li> <li>• MSU, Vadodara</li> <li>• DAICT, Gandhinagar</li> <li>• PDPU, Gandhinagar</li> <li>• DDIT, Nadiad</li> <li>• Charotar University Petlad</li> <li>• CEPT University, Ahmedabad</li> <li>• Vishwakarma Engineering College, Ahmedabad</li> <li>• LDCE, Ahmedabad</li> <li>• IITRM, Ahmedabad</li> <li>• IICT, Ahmedabad</li> <li>• Govt. Engineering College, Surat</li> <li>• SVIT, Vasad</li> <li>• BVM, Vidyayanagar</li> <li>• LJ Institute of Engineering and Technology</li> </ul> |

For List of Colleges of B Ftech. (Bachelor of Fashion Technology), B. Arch. (Bachelor of Architecture), B. Plan (Bachelor of Planning), Dual Programs in Engineering (B.Tech.+M.Tech.), visit [www.mohitmangal.com](http://www.mohitmangal.com)

| Exam                                                                                                                                                            | Selection Process & Test Pattern                                                                     | No. of Questions                                                                                     | Marks                                                       | Tentative Schedule & Remarks                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>JEE Main- Paper 1</b><br><a href="http://www.jeemain.nic.in">www.jeemain.nic.in</a><br>Time: 3 Hours<br>Timing : NA<br>Mode: Computer Based/<br>Pen & Paper  | Maths<br>Physics<br>Chemistry<br>Total Questions                                                     | 30 Questions<br>30 Questions<br>30 Questions<br><b>90 Questions</b>                                  | 120 Marks<br>120 Marks<br>120 Marks                         | Forms Out: Oct./ Nov.<br>Last Date: Dec./ Jan.<br>Test: April<br>Negative Marking: +4/-1<br>Total Marks: 360<br>Forms Available: Online                                                                                                                              |
| <b>JEE Main- Paper 2</b><br><a href="http://www.jeemain.nic.in">www.jeemain.nic.in</a><br>Time: 3 Hours<br>Timing : NA<br>Mode: Pen & Paper<br>For B. Arch Only | Maths<br>Aptitude Test<br>Drawing Test<br>Total Questions                                            | 30 Questions<br>50 Questions<br>02 Questions<br><b>82 Questions</b>                                  | 120 Marks<br>200 Marks<br>70 Marks                          | Forms Out: Oct./ Nov.<br>Last Date: Dec./ Jan.<br>Test: April<br>Negative Marking: +4/-1<br>Total Marks: 390<br>Forms Available: Online                                                                                                                              |
| <b>JEE Advanced- Paper 1</b><br><a href="http://www.jeeadv.ac.in">www.jeeadv.ac.in</a><br>Time: 3 Hours<br>Timing : NA<br>Mode: Pen & Paper                     | Maths<br>Physics<br>Chemistry<br>Total Questions                                                     | 18 Questions<br>18 Questions<br>18 Questions<br><b>54 Questions</b>                                  | 62 Marks<br>62 Marks<br>62 Marks                            | Form Out: JEE Mains<br>Results<br>Last Date: Open For<br>About 10 Days<br>Test Date: May/June<br>Negative Mark.: Variable<br>Forms Available: Online<br>Eligible: 75% in 12th<br>200000 Rank in JEE<br>Main First 20 Percentile<br>of Board<br>Total Marks: 186      |
| <b>JEE Advanced- Paper 2</b><br><a href="http://www.jeeadv.ac.in">www.jeeadv.ac.in</a><br>Time: 3 Hours<br>Timing : NA<br>Mode: Pen & Paper                     | Maths<br>Physics<br>Chemistry<br>Total Questions                                                     | 18 Questions<br>18 Questions<br>18 Questions<br><b>54 Questions</b>                                  | 62 Marks<br>62 Marks<br>62 Marks                            | Form Out: After<br>JEE Mains Result<br>Last Date: Open For<br>About 10 Days<br>Test Date: May/June<br>Negative Mark.: Variable<br>Forms Available: Online<br>Eligible: 75% in 12th<br>200000 Rank in JEE<br>Main First 20 Percentile<br>of Board<br>Total Marks: 186 |
| <b>BITSAT</b><br><a href="http://www.bitsadmission.com">www.bitsadmission.com</a><br>Time: 3 Hours<br>Timing : NA<br>Mode: Computer Based                       | Physics<br>Chemistry<br>English<br>Logical Reasoning<br>Maths/ Bio (for B. Pharm)<br>Total Questions | 40 Questions<br>40 Questions<br>15 Questions<br>10 Questions<br>45 Questions<br><b>150 Questions</b> | 120 Marks<br>120 Marks<br>45 Marks<br>30 Marks<br>135 Marks | Form Out: Jan./ Feb<br>Last Date: March<br>Test Date: May<br>Negative Marking: +3/-1<br>Total Marks: 450<br>Forms Available: Online                                                                                                                                  |
| <b>VIT</b><br><a href="http://www.vit.ac.in">www.vit.ac.in</a><br>Time: 2.5 Hours<br>Timing : NA<br>Mode: Computer Based                                        | Physics<br>Chemistry<br>Maths/Bio<br>English<br>Total Questions                                      | 40 Questions<br>40 Questions<br>40 Questions<br>05 Questions<br><b>125 Questions</b>                 | 40 Marks<br>40 Marks<br>40 Marks<br>05 Marks                | Form Out: Jan./ Feb<br>Last Date: March<br>Test Date: May<br>Negative Marking: +1/ 0<br>Forms Available: Online<br>and Selected PO<br>Eligibility: 60% in 12th*<br>Total Marks: 125                                                                                  |
| <b>Symbiosis</b><br><a href="http://www.sitpune.edu.in">www.sitpune.edu.in</a><br>Time: 2.5 Hours<br>Timing : NA<br>Mode: Pen & Paper                           | Physics<br>Chemistry<br>Maths<br>Total Questions                                                     | 25 Questions<br>25 Questions<br>50 Questions<br><b>100 Questions</b>                                 | 50 Marks<br>50 Marks<br>100 Marks                           | Form Out: Feb./March<br>Last Date: April<br>Test Date: May<br>Negative Marking: +2/0<br>Total Marks: 200<br>Forms Available: Online                                                                                                                                  |
| <b>SRM</b><br><a href="http://www.srmuniv.ac.in">www.srmuniv.ac.in</a><br>Time: 2.5 Hours<br>Timing : NA<br>Mode: Computer Based                                | Physics<br>Chemistry<br>Maths<br>Biology (for Health<br>Science)<br>Total Questions                  | 35 Questions<br>35 Questions<br>35 Questions<br>50 Questions<br><b>155 Questions</b>                 | 105 Marks<br>105 Marks<br>105 Marks<br>105 Marks            | Form Out: Jan./Feb.<br>Last Date: March<br>Test Date: April<br>Negative Mark.: PCM+3/-1<br>Bio. +2.1/0.7<br>Total Marks: 420<br>Forms Available: Online                                                                                                              |
| <b>NATA</b><br><a href="http://www.nata.in">www.nata.in</a><br>Time : 3 Hours<br>Timing : NA<br>Mode: Pen & Paper                                               | Mathematics<br>General Aptitude<br>Drawing<br>Total Questions                                        | 30 Questions<br>30 Questions<br>2 Questions<br><b>62 Questions</b>                                   | 60 marks<br>60 marks<br>80 marks<br>200 marks               | Form Out: Mid Dec<br>Form Date: Mid Feb.<br>Test Date: Mid April<br>Negative Marking : Nil<br>Total Marks: 200<br>Forms Available: Online                                                                                                                            |