

# Ready Reckoner 2024

## Engineering Education & Careers In India : Vast Opportunities

Mr. Elon Musk rightly says, "Engineering is the closest thing to magic that exists in the world." In today's rapidly evolving world, Engineering stands at the forefront, driving technological and societal transformations. Engineering fuels high-tech growth and propels humanity into new realms, from the skies to the depths of the oceans. In this age of new technology, Engineering remains crucial, and engineers continue to be in high demand.

Throughout history, Engineering has turned imagination into reality, from the invention of the wheel to the marvels of the modern era like Google, mobile phones and aeroplanes. Without Engineering, our society would stagnate. Thus, Engineering remains a sought-after profession worldwide, including in India.

### Engineering In Indian Context

India is emerging as a global Engineering hub, boasting modern marvels like the Sela Tunnel, Statue of Unity, Atal Tunnel, Chenab Bridge, Bandra-Worli Sea Link, and the Signature Bridge. With the highest number of Engineering institutes globally, including IITs, NITs and IIITs, India produces 1.5 million Engineering graduates annually. Private and non-autonomous institutions play a pivotal role in this output. To help students navigate their options, the CSR Group provides comprehensive guidance through surveys and publications.

### Historical Engineering Achievements In India

India's ancient Engineering prowess is evident in landmarks like the drainage systems of the Indus Valley Civilisation and the iron pillar in Delhi. Such feats underscore the truth in physicist Michio Kaku's assertion that engineers turn dreams into reality, solving problems that seem impossible.

### Scope Of Engineering In India

India has vast potential in technology and innovative Engineering, producing more IT and computer engineers annually than any other country. Engineering offers abundant employment opportunities in both the private and public sectors. Renowned figures like Neil Armstrong, Mr. Sundar Pichai and Mr. Jeff Bezos all began with Engineering degrees, illustrating the diverse paths this profession can lead to.

With advancements in technology, the demand for engineers continues to rise. The profession's wide-ranging impact across industries underscores its essential role in economic and societal development.

### Modern Engineering

As Gordon Stanley Brown noted, Engineering lies at the interface between science and society. Modern Engineering encompasses a vast array of applications, from medical innovations to space exploration. The omnipresence of Engineering in our daily lives—from social media to online job applications—demonstrates its integral role in contemporary society.



### Engineering Education In India

Since India's first Engineering College was established in 1847, Engineering Education has expanded significantly. Post-Independence, India focused on creating high-calibre national Engineering institutes. IIT-Kharagpur, established in 1951, was the first of many prestigious IITs, NITs and IIITs. Today, India has over 4,435 Engineering Colleges, producing more than 1.5 million engineers annually.

Accreditation by the National Board of Accreditation (NBA) ensures that Engineering programmes meet high standards. The All India Council for Technical Education (AICTE), established in 1945 and made a statutory body in 1987, oversees technical education in India.

### Engineering Streams

Engineering institutions offer various courses, with popular streams including Civil, Mechanical, Electrical, Electronics, Computer Science, and Information Technology. Emerging fields like AI, Blockchain, Cloud Computing, and Data Science also provide excellent career opportunities. Specialised areas such as Semiconductor Engineering and Green Engineering are expected to grow rapidly with increased government investment.

### Mantra For Engineering Success

Aspiring engineers should heed Mr. Sundar Pichai's advice to follow their dreams and work hard. Success in Engineering requires persistence, innovative thinking, and an indomitable will. The stories of pioneers like Walt Disney illustrate how imagination and Engineering can create remarkable outcomes.

Engineering in India offers vast opportunities for those willing to strive. With a positive mindset and relentless efforts, aspiring engineers can succeed significantly in this ever-evolving field.

# Ready Reckoner Of Top Engineering Colleges

Sl. No.	Name of the Engineering College	Infrastructure (Physical & Academic) (390)	Faculty, Research, Consultancy, EDP & Other Programmes (600)	Admission, Curriculum & Delivery Systems (250)	Placements, USP, Social Responsibility, Networking & Industry Interface (460)	Total Score (1700)
1	Aditya Engineering College, Surampalem, Andhra Pradesh	231	293	134	258	916
2	Ajay Kumar Garg Engineering College, Ghaziabad, Uttar Pradesh	297	399	181	339	1216
3	Amrutvahini College of Engineering, Sangamner, Maharashtra	265	328	154	282	1029
4	Chandigarh Engineering College, Jhanjeri, Punjab	289	348	165	321	1123
5	Chitkara University Institute of Engineering & Technology, Rajpura, Punjab	309	427	184	361	1281
6	CMR College of Engineering & Technology, Hyderabad, Telangana	272	349	169	286	1076
7	College of Agricultural Engineering and Technology, Junagadh, Gujarat	265	355	163	294	1077
8	Dr. C. V. Raman University, Bilaspur, Chhattisgarh	288	360	169	293	1110
9	Dr. C.V. Raman University, Vaishali, Bihar	194	215	105	140	654
10	Dwarkadas J. Sanghvi College of Engineering, Mumbai, Maharashtra	292	404	178	331	1205
11	Faculty of Engineering, Teerthanker Mahaveer University Moradabad, Uttar Pradesh	268	344	155	312	1079
12	Francis Xavier Engineering College, Tirunelveli, Tamil Nadu	266	344	162	306	1078
13	G. Pulla Reddy Engineering College (Autonomous), Kurnool, Andhra Pradesh	250	326	154	283	1013
14	G. Pullaiah College of Engineering and Technology (Autonomous), Kurnool, Andhra Pradesh	242	260	146	262	910
15	Galgotias University, Greater Noida, Uttar Pradesh	286	400	182	329	1196
16	Gautam Buddha University, Gautam Budh Nagar/Greater Noida, Uttar Pradesh	277	382	177	323	1159
17	Geethanjali College of Engineering and Technology, Medchal, Telangana	224	296	132	245	896
18	GMR Institute of Technology, Srikakulam, Andhra Pradesh	289	352	167	299	1107
19	Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, Telangana	288	402	176	334	1200



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20	Government Model Engineering College, Kochi, Kerala	216	272	131	234	853
21	Greater Noida Institute of Technology, Greater Noida, Uttar Pradesh	247	334	146	275	1002
22	Guru Nanak Dev Engineering College, Ludhiana, Punjab	293	404	186	331	1214
23	Guru Nanak Institutions Technical Campus (Autonomous), Hyderabad, Telangana	298	382	159	337	1176
24	Hindustan Institute of Technology and Science (Deemed to be University), Chennai, Tamil Nadu	327	435	215	380	1358
25	Hindusthan College of Engineering and Technology, Coimbatore, Tamil Nadu	313	420	191	364	1288
26	Hindusthan Institute of Technology, Coimbatore, Tamil Nadu	263	376	161	303	1103
27	I.T.S Engineering College, Greater Noida, Uttar Pradesh	263	371	149	298	1081
28	Indira Gandhi Delhi Technical University for Women (IGDTUW), Kashmere Gate, Delhi	315	405	196	365	1281
29	Institute of Aeronautical Engineering, Hyderabad, Telangana	278	387	176	336	1177
30	Institute of Technology, Nirma University, Ahmedabad, Gujarat	330	452	214	366	1362
31	Jaypee Institute of Information Technology, Noida, Uttar Pradesh	319	425	210	384	1338
32	K. Ramakrishnan College of Engineering, Tiruchirappalli, Tamil Nadu	256	335	152	285	1028
33	K. Ramakrishnan College of Technology (Autonomous), Trichy, Tamil Nadu	289	386	179	311	1165
34	K.S. Rangasamy College of Technology, Tiruchengode, Tamil Nadu	276	379	171	329	1155
35	K.S.R. College of Engineering, Namakkal, Tamil Nadu	265	351	157	302	1075
36	Kamaraj College of Engineering and Technology, Madurai, Tamil Nadu	218	273	129	241	862
37	KCG College of Technology, Chennai, Tamil Nadu	289	373	176	344	1182
38	Knowledge Institute of Technology, Salem, Tamil Nadu	233	306	138	256	933
39	Koneru Lakshmaiah Education Foundation (Deemed to be University), Guntur, Andhra Pradesh	318	427	202	374	1322
40	Lakshmi Narain College of Technology & Science, Bhopal, Madhya Pradesh	235	315	133	254	937
41	Lakshmi Narain College of Technology Excellence, Bhopal, Madhya Pradesh	229	279	131	254	893



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42	M. Kumarasamy College of Engineering, Karur, Tamil Nadu	278	377	161	318	1134
43	Maharaja Agrasen Institute of Technology, Rohini, Delhi	296	410	181	347	1234
44	Maharishi Markandeshwar Engineering College, Mullana, Ambala, Haryana	297	415	181	342	1235
45	Mahatma Gandhi Institute of Technology (Autonomous), Hyderabad, Telangana	263	346	140	283	1032
46	Malla Reddy College of Engineering and Technology, Secunderabad, Telangana	279	386	171	317	1153
47	Malla Reddy Engineering College for Women, Secunderabad, Telangana	268	377	159	313	1117
48	Manipal University, Jaipur, Rajasthan	314	428	195	370	1307
49	Model Institute of Engineering and Technology (MIET), Jammu, Jammu and Kashmir	268	352	158	296	1074
50	Muthayammal Engineering College, Namakkal, Tamil Nadu	227	296	140	234	897
51	Oriental Institute of Science and Technology, Bhopal, Madhya Pradesh	262	330	146	295	1033
52	Rajagiri School of Engineering & Technology (Autonomous), Kochi, Kerala	294	404	181	353	1231
53	Rajeev Gandhi Memorial College of Engineering and Technology, Nandyal, Andhra Pradesh	268	349	159	296	1072
54	Rajshree Institute of Management & Technology, Bareilly, Uttar Pradesh	225	301	125	235	886
55	Ravindra College of Engineering for Women, Kurnool, Andhra Pradesh	213	259	134	236	842
56	Rungta College of Engineering & Technology, Bhilai, Chhattisgarh	291	406	174	341	1212
57	Sathyabama Institute of Science and Technology, Chennai, Tamil Nadu	334	419	212	378	1343
58	School of Engineering, Presidency University, Bengaluru, Karnataka	260	326	152	272	1010
59	Scope Global Skills University, Bhopal, Madhya Pradesh	224	298	134	248	904
60	Sengunthar Engineering College (Autonomous), Tiruchengode, Tamil Nadu	216	269	130	230	845
61	Shirpur Education Society's R.C. Patel Institute of Technology, Shirpur, Maharashtra	284	346	165	318	1113



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62	Shobhit Institute of Engineering and Technology (Deemed to be University), Meerut, Uttar Pradesh	262	348	165	289	1064
63	Shri Dharmasthala Manjunatheshwara College of Engineering & Technology, Dharwad, Karnataka	307	417	183	365	1272
64	Shri Ram Murti Smarak College of Engineering & Technology, Bareilly, Uttar Pradesh	235	288	130	236	889
65	Shri Ramdeobaba College of Engineering and Management, Nagpur, Maharashtra	273	378	169	330	1150
66	Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore, Madhya Pradesh	275	324	133	243	975
67	Sikkim Manipal Institute of Technology, Rangpo, Sikkim	314	413	192	365	1284
68	Sir M. Visvesvaraya Institute of Technology, Bangalore, Karnataka	265	370	174	334	1143
69	Sona College of Technology, Salem, Tamil Nadu	331	431	210	378	1350
70	Sri Venkateswara College of Engineering, Tirupati, Andhra Pradesh	211	269	124	242	845
71	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur, Rajasthan	286	348	161	291	1086
72	Swami Vivekanand Subharti University, Meerut, Uttar Pradesh	289	354	168	299	1110
73	T. John Institute of Technology, Bengaluru, Karnataka	222	264	126	222	833
74	The ICFAI University, Kamalghat (W), Tripura	249	329	144	283	1005
75	The Oxford College of Engineering, Bengaluru, Karnataka	282	374	181	322	1159
76	University Institute of Science and Technology (Rabindranath Tagore University), Raisen, Madhya Pradesh	222	297	136	251	906
77	University of Engineering and Management, Kolkata, West Bengal	261	331	152	304	1048
78	Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada, Andhra Pradesh	280	408	181	329	1198
79	Velalar College of Engineering and Technology, Erode, Tamil Nadu	292	348	177	315	1132
80	Vidyavardhaka College of Engineering, Mysuru, Karnataka	248	326	146	281	1000
81	Vivekananda Institute of Professional Studies - Technical Campus, Pitampura, Delhi	217	292	152	253	914

Disclaimer : "All the rankings are based only on the voluntary participation of the educational institutes and those who have not participated, we are not responsible for their ranking of any kind in any of our categories. Methodology process is solely based on rating given by CSR as per the defined parameters only for the voluntarily participated institutes". Readers are recommended to further make appropriate enquiries regarding the Survey. The CSR Group or its Editor shall not be held responsible for any consequences, financial or otherwise, arising out of the readers' action on the CSR Engineering Colleges Survey 2024.