# EXPAND LEARNING HORIZONS TO EXPLORE GLOBAL OPPORTUNITIES

## SRM University facilitates learning with a global perspective

In the knowledge era we are in, the thirst for learning and acquiring knowledge need not be confined to mere classrooms or even campuses. When the spirit of learning is intense, it can take wings and explore world of opportunities.

Reason why, Department of International Relations at SRM facilitates students to study one full semester in some of the globally renowned universities such as Massachusetts Institute of Technology, Carnegie Mellon, Northeastern University, UC Davis, SUNNY Buffalo, University of Wisconsin, Lille Catholic University, University of Western Australia etc. to widen their sphere of knowledge and prepare themselves to explore global opportunities. Not many universities in India can boast of providing such opportunities to students.

The Department of International Relations at SRM encourages its students especially the Master's students to pursue research and widen intellectual horizons. The curriculum involves a winning combo of highly relevant theory and exposure to real time developments across the globe in their respective disciplines. The theoretical part reinforces the fundamentals to make the students well grounded in their subjects, while the real time global exposure opens up their minds and makes them stay abreast with current developments in their field.
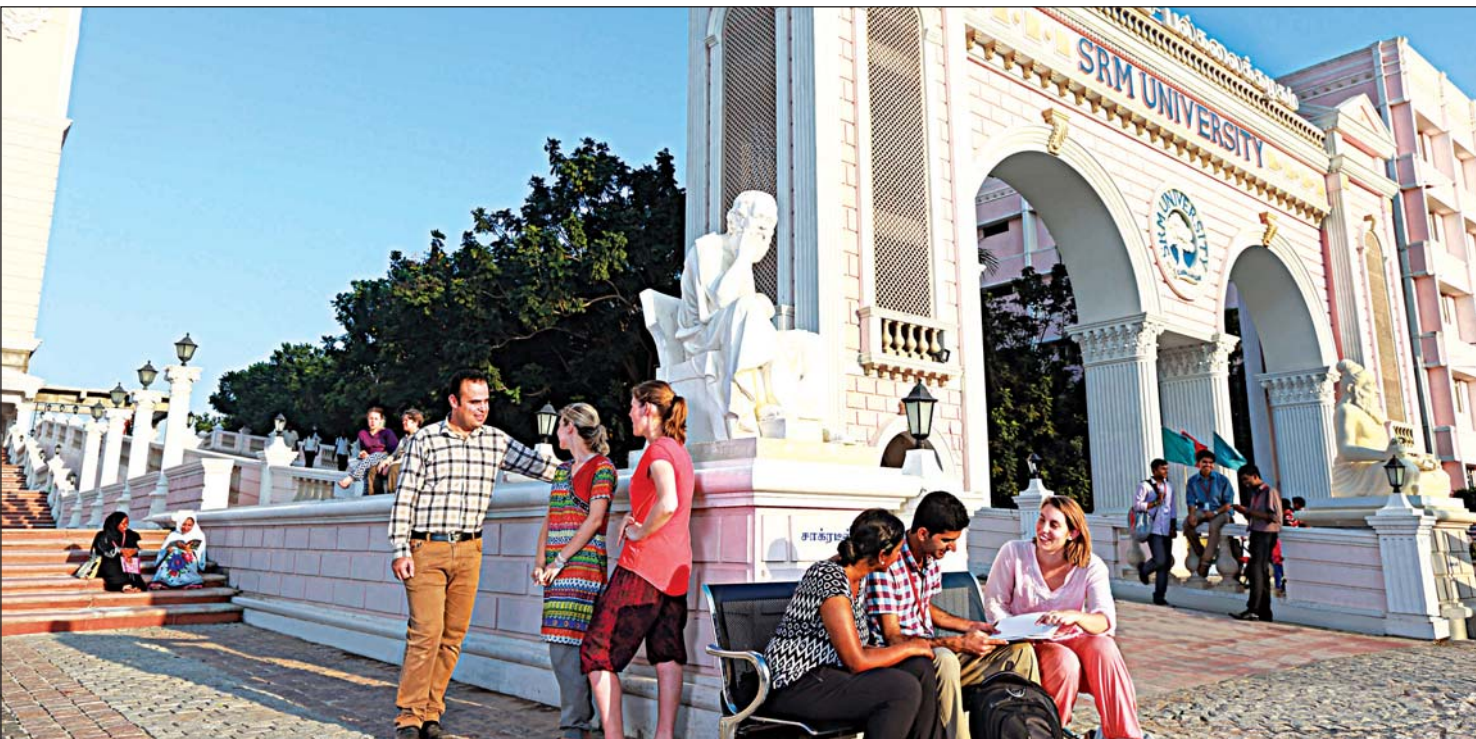
The university doesn't stop with students. SRM also wants to have its faculty members to acquire global knowledge and competence to prepare students for a global career. Under the Faculty Abroad Program, professors from foreign countries are made to work in SRM campus for a specific period to share their knowledge and similarly SRM professors were sent to overseas university for a short stint.

The short stint is inspiring enough for me to pursue a lifetime of research."

Manisha Mohan, who did her research on 'thermal barrier coating' in a Production and Technology Centre in Sweden narrates, "I went to Sweden to complete my bachelor thesis as part of Study Abroad Program. My experience with the Swedish University is truly transformational. I met some of the globally renowned scientists and had the opportunity to work with them. Professors there were very accommodative and gave us outstanding freedom to learn and explore. What surprised me is their immense knowledge and approach to research. They have awesome research bent of mind and you are encouraged to innovate in your field of choice. Their knowledge and approach to research were awesome. It is truly an inspirational experience and I



**SRM University Campus**

am a completely transformed person now. This has opened up my mind to take academic and professional challenges head on.

Manisha Mohan adds, "The short stint is inspiring enough for me to pursue a lifetime of research. They have great respect for Indians, particularly Indian students as they feel we have strong academic background and are focused. Students and support staff there were very friendly and approachable. I have never experienced any difficulty in food, cultural issues, living conditions etc., There are no issues, no conflicts whatsoever".

Dr. Devi Arikketh, Assistant Professor, Department of Genetic Engineering, recently went to University of Washington, USA for six months research training in the field of Stem Cells.

Foreign faculty, flexible and dynamic curriculum, exciting research and global connections are features that set SRM apart. Students have a wide choice of cutting edge programs including Nanotechnology, Bioinformatics, Genetic Engineering, Remote Sensing and GIS, Embedded Systems or Computer Forensics to choose from. Most of these courses are offered in close collaboration with foreign universities.

SRM University is one of India's leading institutes, with over 40,000 students and 2500 faculty members. The faculty are encouraged to build global alliances, currently there are over 100 international programmes across 23 countries. The Faculty Abroad Program (FAP), sponsors SRM faculty to overseas Universities of repute for research, auditing courses and for gaining greater understanding of global governance and academic processes. Several faculty members have been to institutions like MIT, Harvard, USC, Carnegie Mellon, University of Berkley, Warwick University, Dalhousie University, Lin Yi Normal University, NEC and University Francois-Rabelais.

Also, the diversity of students from 52 countries and across the country provides an exciting and stimulating environment, filled with fun and relaxation. The cosmopolitan environment provides opportunities to appreciate and understand other cultures and languages.

The era of globalization means many things to SRM: Research on issues relating to science and technology, exchanges with foreign universities, overseas opportunities for undergraduates, and collaboration. The university embarked upon ambitious strategic initiatives to ensure that SRM continues to educate future leaders and to find solutions to the most pressing global challenges through its International Advisory Board with over 50 eminent scholars from 9 countries across the world, Corporate Advisory Board with eminent executives from 215 leading companies.

All these led the University to be ranked among one of the top universities in India. The Ministry of Human Resource Development (MHRD), Department of Higher Education, Government of India, has placed SRM University in highest Category 'A'. SRM University, Chennai is ranked no: 1 in the "Top 25 Private/Deemed Universities in India" Survey conducted by Higher Education Review (HER) Magazine. SRM Institute of Science and Technology, Chennai is ranked no: 1 among the private institutes in India by Times Engineering Survey, 2014.

The President of India Shri Pranab Mukherjee praised SRM as, "I am delighted to know that foreign faculty members, flexible and dynamic curriculum, exciting research and global connections are features that set SRM apart. In the context of meeting the objectives of higher education in today's competitive world, SRM University has played an outstanding role over the past 27 years"

"I am very thankful to my professors here at SRM who prepared me well and gave me the freedom to explore my topic of interest at an overseas university. Not many get an opportunity to visit such universities. And Study Abroad Program is an exciting one and I recommend it to every aspiring student who is focused on acquiring world class knowledge and global exposure." Manisha concludes

Whereas Sumanth Reddy has something more to say "I used to be an introvert and often keep things to myself. But the experience at Carnegie has opened up my mind and transformed me completely. Now I explained my research project to the whole class and everyone, including my professor listened to me in rapt attention. I am sure that the experience I gained can come in handy for my career. I strongly recommend 'Semester Abroad' program offered by SRM. You get a lifetime experience and not many can get such opportunities in life. I thank SRM management for conducting such programs and help widen student's learning horizon"

To meet the pressing global challenges of the 21st century SRM is focused on introducing new programmes and strengthen research capabilities in Engineering and Technology; Medicine and Health Sciences; Science and Humanities; and Management and Business studies. The university places students at the centre of everything it does. SRM is committed to provide world class learning experience for its students in all disciplines.

Education, perhaps more than any other discipline is global in its nature, scope and impact. With the advent of internet and communication facilities, conventional boundaries of the past have been erased. Being a university committed to world class learning, SRM strives to remove boundaries to the pursuit of knowledge.

SRM University facilitates advanced learning for interested students, through its connections with foreign universities giving them an opportunity to live, interact and experience an international education and a different culture - thereby raising their caliber to be at par with the best in the world. This exposure is sure to instill confidence and skill sets required to take on global challenges.

So far SRM has sponsored 525 students to 64 foreign Universities like MIT, University of California, University of Wisconsin, University of Pittsburgh, University of Dayton, Warwick University, Lancaster University, Polytechnique Tours, Tokai University, Kyutech University, etc.

Under the Semester Abroad Program the students are allowed to take-up a few courses and /or a Major project in reputed foreign universities for ONE semester. The credits earned in the foreign university through the SAP will be translated into SRM credits, by an approved conversion procedure, and taken for consideration for the award of the degree by SRM University. After the study period at a foreign university the students return to SRM University to continue with the degree program for which they were enrolled, and after fulfilling all the necessary conditions laid out in the regulations of SRM University, the student will become eligible for the award of the degree.

This priceless exposure to a whole new sphere of learning brightens their job prospects in India and abroad, and more importantly, creates graduates who are future ready.

There are several reasons for SRM to organize Study Abroad Program. There are more students accessing higher education today who are not only looking for diversity in courses and but are concerned about landing in a good job. The dynamics of the businesses has changed requiring new paradigms in management and new skill sets to manage the ever changing customer and market demands. This is happening at a macro level as well. With India's almost complete alignment with the world economy, the workplace demands new skills, competencies and experience to meet unprecedented global competition. SRM understands the need to prepare students to take on global careers, which requires global exposure at the very early stage.



**Final year student Manisha Mohan with Swedish university Professors**

### Thanks to SRM, I couldn't have asked for more



Similarly, Sumanth Reddy, a computer science student who went to Carnegie Mellon University in Pittsburgh, USA as part of the Study Abroad Program elucidates, "Even now, it feels like a dream. I had an amazing experience at Carnegie. I did a project called 'Reading Intelligent tutor', which is a software program that will make the text read loud. In the sense, when you type it will be read out by a voice and it is used to correct your pronunciation. I had great time with professors and fellow students there. I freely audited the core structure of the university, how they conduct exams.

The learning and research, it is a different ball game altogether. We had very limited class room sessions. Here, we learn without knowing the applicability of our knowledge. There, they make you understand the application part of your knowledge. And you can see your knowledge in action. That's wonderful.

**Sumanth Reddy** | A COMPUTER SCIENCE STUDENT

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# QUALITY EDUCATION FOR FUTURE ENGINEERS

## A JIS PROMISE

Recognised as one of the largest and premier education provider in Eastern India, JIS Group Educational initiatives has been tirelessly aspiring excellence in the facilitation of top-quality technical education to their students under its member engineering institutes. The JIS Group of Institutions equips the students with more than 222 specialized departmental labs and libraries comprising of 3.26 lacs books which are constantly updated. The JIS group of Institutions has above 1508 faculty strength out of which 308 are Ph.D holders who published more than 177 books. In fact, JIS College of Engineering (JISCE) & Narula Institute of Technology (NIT) have been selected under Phase II, Subcomponent 1.2 and Subcomponent 1.1 respectively of the World Bank assisted, Technical Quality Improvement Programme (TEQIP) for the quality upgradation of engineering and technology education and procurement.

A firm believer in quality education through practical leaning, the member engineering institutes under JIS institutions stresses on practical training and hands on industry experience by arranging compulsory internships, regular industry visits in reputed corporates through their strategic tie-ups that aids in knowledge sharing and hands-on training. To manifest this belief into a reality, JIS every year organizes a knowledge sharing experience with Asian Institute of Technology (AIT), Bangkok. This year JIS group organized the two week knowledge sharing aka winter education camp at AIT, Bangkok, Thailand from 5th - 17th January, 2015. In this training session students were given exposure on various fields such as Construction Engineering and Management; Satellite communication etc. They get a chance to interact with the world renowned scientists and professors of NSTDA, JAXA (Japan Aerospace Agency), AIT, Bangkok University.

Students aspiring to study in JIS Group can be assured of quality education as all courses are duly accredited by National Assessment and Accreditation Council (NAAC), National Board of Accreditation (NBA), New Delhi; recognised by University Grants Commission (UGC) and approved by All India Council for Technical Education (AICTE) and West Bengal University of Technology (WBUT).

During its journey of sixteen years, the engineering institutions under JIS Group of Institutions have achieved many milestones, accolades and achievements. Among the mentionable ones are:

- World Consulting and Research Corporation (WCRC) Leaders Asia awarded the title "Most promising Brand in Asia. – 2013-2014"
- Europe Business Assembly, United Kingdom, recognised JIS Group Educational Initiatives as one of the Best Enterprises in Educational Sphere - 2014.
- World Consulting and Research Corporation (WCRC) Leaders Asia awarded Taranjit Singh, the Managing Director of JIS Group Educational Initiatives as the 'Game Changer of the Year 2015 – Business'
- JIS College of Engineering is the 1st Autonomous Private Engineering College in West Bengal that also received NAAC grade "A" Accreditation in 2014-2015
- 1st Centre of Advanced Studies was established in JIS College of Engineering in the fields of Nano Science and Cloud Computing in our state, established in the year 2013 in association with Central Glass & Ceramic Research Institute and Jadavpur University respectively.
- NIT received prestigious NAAC Accreditation in the year 2014-15.
- NBA Accreditation received for the undergraduate programme in the Department of Electronics & Communication Engineering, Electrical Engineering, Information Technology and Civil Engineering.
- Memorandum of Understanding (MoU) between Knowledge Incubation for Technical Education (KITE) Centre, Indian Institute of Technology, Kharagpur and Narula Institute of Technology For Academic Collaboration Under Technical Education Quality Improvement Programme (TEQIP) Phase – II was signed on 16/02/2015.
- Memorandum of Understanding (MoU) between National Institute of Technology, Sikkim and Narula Institute of Technology, signed on 18/02/2015 to enable cooperation in pursuit of common interests in teaching, training and research in Science, Technology and Management as well as cultural understanding.
- GNIT have received nearly Rs.58 lakh as grant from UGC in 2014-15 alone for its projects
- Last year JIS College of Engineering was ranked 35th among private institutes, in The Times Engineering Survey.



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# THEY PREPARE THEIR STUDENTS TO HIT THE GROUND RUNNING

GMIT Engineering College, Kolkata has a simple deliverable: getting their students employment ready upon passing out. The entire academic curriculum is carefully calibrated for achieving that goal.

Right from the day of the first year there is subtle of two prospectives-achieving excellence & developing managerial skills.

In the first year irrespective of whether you are in Civil, Mechanical Electrical , Electronics and Communication or Computer Science Engineering there is always stress on overall development.

In the second year thrust is on empowering students and certifying them with job-specific skills under the National Skill Development Program.

Third year is devoted to pursuing aptitude-specific industrial exposure.

And in the fourth year the entire focus is on students getting ready for the industries.

This is why GMIT has a dedicated Microsoft IT academy at the college for app development, an Intel Centre of Excellence and a dedicated lab for TCS inside the campus. The students from the core sectors also get exposure to industries and workshops through tie-up with CII on employability development initiatives.



Chairman of GMIT, Kolkatta Dr. G.L.Dutta former dean of IIT Kharagpur said "we prepare our students to hit the ground running".

www.gmitkolkata.org

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# An Engineering college where professionals are honed and are not merely job seekers

As you take a right turn from western express highway on Kaman Bhiwandi road & barely have you crossed 5 kms you would notice a huge green campus of Universal College of Engineering, strategically located & about 20 to 30 mins from Borivali, Thane, Vasai, Bhiwandi and Kalyan station. The campus is surrounded by nature, with the flowing Kaman river touching two side boundary walls of the college and hills at its backyard. Spacious classrooms, state-of-the-art presentation equipment, an expansive library, intimate tutorial rooms, workshops, drawing rooms, courtyards, the Literati cafe, and above all, the serenity of the environment around are the reasons to make a student feel 'home away from home'. The campus is purposly built for higher education and allows for blending of outdoor learning with intensive indoor class work. The campus is designed by renowned New York-based international architect, Perkins Eastman, who is among the 25 largest architecture and design firms in the world.

"Infrastructure is clean, big and best which is used for all the functions. Good common rooms for boys and girls. The college has a proper ground for sports event. UCOE provides all the facilities and support for its students, proper guidance, good infrastructure and very nice environment; thus is one of the good colleges in India" said a 3rd year student.
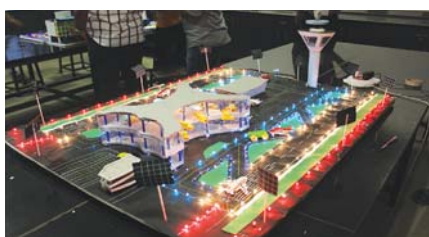
Universal College of Engineering is an AICTE-approved Mumbai-University-affiliated college offering the 4-year full-time B.E. program of the Mumbai University. It's total intake capacity is of 420 students in Civil, Electronics, ExTC, Computer and I.T.

Rigorous Academic Orientation that blends theory with research orientation, entrepreneurship skills and practical exposure is a conscious effort of every teaching faculty. Distinguished faculty consisting of professional, qualified & well-trained full-timers added to which is a list of industry leaders participating in the college's distinguished lecture series. Students are exposed to hands-on-experience through various industrial visits & workshops. The college also hosts National level academic, Tech-fest and cultural competitions for students.

"My daughter gets all her doubts cleared in the college itself from the faculties who are well educated & up to the mark. So she doesn't need any extra classes to be joined apart from college. The labs are all well-equipped" said parent of 2nd year student.

The college houses the IIT Bombay Remote Centre. It is a classroom from where the students, faculties and other participants remotely attend lectures and interact with faculties of IIT Bombay.

Students with the help of their faculty have designed and developed an ATV car (All Terrain Vehicle) in the campus, 3 of their students have been selected for internship with IIT Bombay, a student has successfully designed a unique educational product which has received order from several educational institutes and another student has developed an java, HTML, ISP and SQL which has been used by many colleges are a few of the many achievements bagged by the college.

Their entrepreneurship cell helps students from the stage of floating the thought of becoming an entrepreneur in their minds and thereafter handholding them from the ideation stage to the implementation stage. Their intent is to foster students to become 'Job Creators' rather than 'Job Seekers' with the help of this cell.

Their Placement assistance commences with an excellent communication skills curriculum followed by guidance lectures and practice assessment tests to make them job ready. "We initiated internship of our students in large corporates and SMEs from the time when they completed their 2nd year. An early exposure to the corporate world gives them more number of turns to show case themselves to the outside world and their sincere work will lead to them being placed in companies of their choice" said a senior team member.

Universal College of Engineering is a part of Universal Education, one of the fastest-growing education enterprises in India. It operates 50+ institutions in Mumbai, Thane, Nashik, Auranganbad, Trichy, Bangalore, Dubai and Sharjah.

Says Jesus M. Lall, Chairman "At Universal, it is our continuous and consistent effort to hone our students to become holistic individuals and not merely degree holders. Our program thus is a confluence engineering theory with practical skills, local knowledge with a global perspective and academic rigour with all-round development. I would like to invite you to visit us on campus or visit our website @ www.universalcoe.edu.in".

# TIMES ENGINEERING

www.times-engineering-survey.com

An OMS Initiative, The Times of India     Tuesday, 16 June, 2015     An Advertorial, Education Promotional Feature

Delhi + NCR, Bombay, Kolkata, Pune, Hyderabad, Chennai, Indore, Bhopal, Lucknow, Kanpur, Ranchi, Patna, Ahmedabad, Agra, Bareilly, Moradabad, Meerut, Chandigarh & Ludhiana

# RESEARCH METHODOLOGY AND RANKING

**TOP 100 ENGINEERING INSTITUTES IN INDIA**

The objective of this research was to arrive at a list of top engineering institutes in India. The study had two major modules i.e. Perceptual Rating Survey & Factual Survey.

## TOP 1-50 ENGINEERING INSTITUTES

1. IIT Kharagpur
2. IIT Guwahati
3. IIT Bombay
4. IIT Delhi
5. IIT Madras
6. IIT Kanpur
7. SRM Institute of Science and Technology, Chennai
8. Delhi Technological University (DTU), Delhi
9. IIT Roorkee
10. BITS Pilani
11. Visvesvaraya National Institute of Technology (VNIT), Nagpur
12. NIT Durgapur
13. Indian Institute of Information Technology (IIIT), Pune
14. BMS College of Engineering, Bangalore
15. IIT-BHU - Varanasi
16. Amity School of Engineering & Technology, Noida
17. Veermata Jijabai Technological Institute (VJTI), Mumbai
18. Vishwakarma Institute of Technology (VIT), Pune
19. Netaji Subhas Institute of Technology (NSIT), Delhi
20. BIT, Mesra - Ranchi
21. Manipal Institute of Technology, Manipal
22. NIT Warangal
23. Jawaharlal Nehru Technological University (JNTU), Hyderabad
24. NIT Surathkal
25. Sardar Patel College of Engineering, Mumbai
26. College of Engineering, Anna University, Guindy
27. Maharashtra Institute of Technology (MIT), Pune
28. IIT Gandhinagar
29. Vellore Institute of Technology (VIT), Vellore
30. Manav Rachna College of Engineering, Faridabad
31. D Y Patil Group's: Ramrao Adik Institute of Technology, Navi Mumbai
32. NIT Rourkela
33. NIT Trichy
34. Jamia Millia Islamia, New Delhi
35. Govt College of Engineering , Pune
36. Osmania Univ College of Engineering, Hyderabad
37. NIT Patna
38. Nirma Institute of Technology, Ahmedabad
39. SASTRA , Thanjavur
40. Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar
41. National Institute of Engineering (NIE), Mysore
42. LD College of Engineering, Ahmedabad
43. Indian Institute of Information Technology (IIIT), Bangalore
44. Mumbai University Institute of Chemical Technology, Mumbai
45. SSN College of Engineering, Chennai
46. International Institute of Information Technology (IIIT), Hyderabad
47. M S Ramaiah Institute of Technology, Bangalore
48. K L College of Engineering, Veddeswaram
49. Hindustan College of Science and Technology, Mathura
50. College of Engineering, Trivandrum

## TOP 51-100 ENGINEERING INSTITUTES

51. R V College of Engineering, Bangalore
52. Sathyabhama Engineering College, Chennai
53. Dr B R Ambedkar National Institute of Technology, Jalandhar
54. NIT Jamshedpur
55. Vels University, Chennai
56. Maeer's MIT College Of Engineering, Pune
57. Kongu Engineering College, Erode
58. Guru Nanak Dev Engineering College, Ludhiana
59. JIS College of Engineering, Kolkata
60. IIT Hyderabad
61. Jawaharlal Nehru Technological University (JNTU), Anantpur
62. IIT Bhubaneswar
63. Indian School of Mines, Dhanbad
64. Kalasalingam University, Krishnankoil Madurai
65. Meerut Institute of Engineering and Technology (MIET), Meerut
66. Noida Institute of Engineering and Technology (NIET), Greater Noida
67. ITM University, Gurgaon
68. Vasavi College of Engineering, Hyderabad
69. Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat
70. PSG College of Technology, Coimbatore
71. Rizvi College of Engineering, Mumbai
72. Indian Institute of Information Technology (IIIT), Allahabad
73. Punjab Engineering College, Chandigarh
74. Jiwaji University, Gwalior
75. Pranveer Singh Institute of Technology (PSIT), Kanpur
76. NIT Calicut
77. Jadavpur University, Faculty of Engineering & Technology, Kolkata
78. Vishwakarma Government Engineering College, Ahmedabad
79. Bangalore Institute of Technology, Bangalore
80. Bharati Vidyapeeth University College of Engineering, Pune
81. IITM, Delhi
82. P E S Institute of Technology, Bangalore
83. Dhirubhai Ambani IICT, Gandhinagar
84. Jawaharlal Nehru Technological University (JNTU), Kakinada
85. BIT Sindri
86. GNIT, Delhi
87. Maulana Azad National Institute of Technology (MANIT), Bhopal
88. S J College of Engineering, Mysore
89. University Visvesvaraya College of Engineering, Bangalore
90. Government Engineering College, Surat
91. Haldia Institute of Technology, Haldia
92. Government College of Engineering, Amravati
93. Delhi Institute of Technology & Management (DITM), Gannaur, Sonipat
94. Sanjay Ghodawat Institute of Technology, Management and Research, Kolhapur
95. Anand Engineering College, Agra
96. Orissa University of Agriculture and Technology, Bhubaneswar
97. J B Institute of Engineering and Technology (JBIET), Hyderabad
98. Medi-Caps Institute of Technology and Management- Engineering, Indore
99. Xavier Institute of Engineering, Mumbai
100. Government School of Engineering and Technology, Ujjain

## TOP 50 PRIVATE ENGINEERING INSTITUTES

1. SRM Institute of Science and Technology, Chennai
2. BITS Pilani
3. BMS College of Engineering, Bangalore
4. Amity School of Engineering & Technology, Noida
5. Vishwakarma Institute of Technology (VIT), Pune
6. BIT, Mesra - Ranchi
7. Manipal Institute of Technology, Manipal
8. Maharashtra Institute of Technology (MIT), Pune
9. Vellore Institute of Technology (VIT), Vellore
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13. SASTRA , Thanjavur
14. Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar
15. National Institute of Engineering (NIE), Mysore
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20. R V College of Engineering, Bangalore
21. Sathyabhama Engineering College, Chennai
22. Vels University, Chennai
23. Maeer's MIT College Of Engineering, Pune
24. Kongu Engineering College, Erode
25. Guru Nanak Dev Engineering College, Ludhiana
26. JIS College of Engineering, Kolkata
27. Kalasalingam University, Krishnankoil Madurai
28. Meerut Institute of Engineering and Technology (MIET), Meerut
29. Noida Institute of Engineering and Technology (NIET), Greater Noida
30. ITM University, Gurgaon
31. Vasavi College of Engineering, Hyderabad
32. PSG College of Technology, Coimbatore
33. Rizvi College of Engineering, Mumbai
34. Pranveer Singh Institute of Technology (PSIT), Kanpur
35. Bangalore Institute of Technology, Bangalore
36. Bharati Vidyapeeth University College of Engineering, Pune
37. IITM, Delhi
38. P E S Institute of Technology, Bangalore
39. Dhirubhai Ambani IICT, Gandhinagar
40. GNIT, Delhi
41. S J College of Engineering, Mysore
42. Haldia Institute of Technology, Haldia
43. Delhi Institute of Technology & Management (DITM), Gannaur, Sonipat
44. Sanjay Ghodawat Institute of Technology, Management and Research, Kolhapur
45. Anand Engineering College, Agra
46. J B Institute of Engineering and Technology (JBIET), Hyderabad
47. Medi-Caps Institute of Technology and Management- Engineering, Indore
48. Xavier Institute of Engineering, Mumbai
49. Narsee Monjee Institute of Management Studies, Mumbai
50. Lakshmi Narain College of Technology, Indore

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# AT THE CUTTING EDGE OF INNOVATION AND TECHNOLOGY

Across an 18-year journey with many a milestones to credit, Manav Rachna Educational Institutions (MREI) have taken on the challenge of yielding applicable knowledge and path breaking Research and Development initiatives. An engineering career demands adaptability towards ever increasing technological demands. By reinventing programs that are aligned with the needs of the industry, MREI is creating a steady stream of students who are corporate-savvy.

MREI's myriad course offerings in different branches of Engineering—Aeronautical or Automobile Engineering, Biotechnology, Civil Engineering, Computer Science Engineering, Electrical and Electronics Engineering, Electronics & Communication Engineering and Mechanical Engineering, each with their own specializations and value-additions has led to the inception of programs that are both job-oriented and industry-specific, often transcending disciplinary barriers. For instance, the Computer Engineering program at Manav Rachna International University (MRIU) offers specializations in Cloud Computing, Business Analytics & Optimization, IT Infrastructure Management and Cyber Security & Forensics in collaboration with IBM which has developed specialized modules to enhance employability skills of the Engineering graduates which consist of Learning Management System (LMS), Student Projects, Expert Lectures, visits to software development and testing centres.

In the field of Mechanical Engineering, the Industry integrated program in collaboration with JBM provides assured placements subject to fulfillment of certain academic benchmarks. Students pursuing M. Tech at the University can take up Nanotechnology, a burgeoning field with immense potential or even Energy and Environment studies at the post graduate level in Biotechnology. Such diverse disciplines are an index of MREI's emergence as one of the largest providers of quality engineers, researchers and technical experts to major industrial giants across the country.

Among other institutes and colleges, MREI includes within its ambit Manav Rachna International University (MRIU) and Manav Rachna University (MRU) which has evolved from Manav Rachna College of Engineering, a NAAC accredited 'A' Grade Institution which is among the top 10% of engineering colleges of the country. MRU has well established soft skill modules mediated through Infosys Campus Connect Program and has been declared as 'Advanced Partner' by Infosys. To introduce critical thinking and inculcate informed decision-making capabilities, students at MRU are given case studies in different courses.

Be it at MRIU or MRU, MREI offers students the flexibility to learn at their own pace and undertake courses of their interest from the large basket of courses aimed at developing technical and soft skills. The teaching learning process is 'Outcome Based' with an emphasis on student-centric learning.

At MREI, there is a great deal of emphasis on innovative development, basic and applied research. A revolutionary initiative in this direction has been the setting up of Manav Rachna Innovation and Incubation Centre (MRIIC) where many path-breaking ideas have been transformed into tangible products. Students at MRIIC are constantly encouraged to think out-of-the box, leading to the creation of a wide array of innovative products like the Smart Skull (a safety protocol helmet which sends accident notification to the nearest hospital and the patient's relatives), Swasthya Sanjivani (an affordable and automatic on-the-spot blood and urine testing system with immediate confirmatory results) Smart Dust Bin (producing social messages when trash is thrown inside), Tractorobot (a robot controlled Tractor), the First Urban Diesel car (with a mileage of 123 km/l), Efficycle (a hybrid vehicle with an aerodynamic design in order to run at a speed of 30 kilometers per hour) among others. MREI's 242 filed patents and over 3,000 research publications have established it's pre-eminence as a research-driven institution. In fact, its strong research base is a standing testimony to the numerous accolades that students have won both at national and international levels. Since 2009, students from Manav Rachna have been participating in Baja competition for All Terrain Vehicles, Supra competitions for Formula One Car, Shell Eco Marathon Competitions for fuel-efficient cars, Intel Embedded Challenge Cup, Microsoft Imagine Cup, among others. Keeping up with the tradition, students from MREI will be representing the country at the Global Finals of the Microsoft Imagine Cup 2015 being held at Seattle USA from July 28-31. This is the fourth consecutive time that teams from Manav Rachna have made it to the top slot at the Microsoft Imagine Cup!

Undoubtedly, students at Manav Rachna are nurtured to get not just an academic degree but a lifetime of learning, each equipped with leadership traits, ethical in conduct and intensely conscious of the world at large.



Manav Rachna's winning team at Microsoft Imagine Cup 2014

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# PREPARING LEADERS FOR TOMORROW

As one of the leading teaching and research universities, Kalasalingam University has initiated preparing students for a leadership role to face this complex world. The university is located in a small town, Krishnankoil, in Virudhunagar district with a wide building covered by green hills. Their main motto is to empower the youth for development through technology. The University campus has fairly well marked zones encompassing a wide array of centers, library, administrative office, sports/recreational zone etc. It seeks to achieve the highest levels of distinction and transmission of knowledge and understanding. Kalasalingam University continuously encourage talented students from all economic backgrounds especially the downtrodden and the rural youth. This institution is a globalised centre of learning, providing its students a balanced exposure in every field they step into. The University has a reputation for outstanding academics supporting excellence and innovation, offering 13 under graduate programs with duration of 4 years and 25 Post graduate, programs of 2 years in Engineering, accredited by National Board of Accreditation and specially provides14 UG/PG programs in the field of Information Technology. Kalasalingam University was the first self financing institution to offer masters program in Computer Science and Engineering in Tamilnadu with excellent infrastructure facilities in Information technology. The Post Graduate degree in Microbial Technology, which trains students in the different areas of modern Biological Sciences and Microbial technology, is a popular course at the university. They present unique special B.Tech and B.Ed courses for hearing impaired candidates to impart Technical education to the differently able students. Admission to the UG and PG courses is based on the applicant's performance in an entrance examination conducted by the university. They always believe that an engineering education develops ability to think logically and to solve problems. The University proudly produced 30 Ph.D scholars in the field of Information technology. TIFAC-CORE in network engineering is established providing consultancy and testing facilities for industries and other organizations in the field of network engineering. The University has also widened their hands to practical schools to promote industry awareness. It expands the boundaries of knowledge and brings distinctions by delivering outstanding values to the students. Credits are provided for self designed laboratories and practical experiments duly. Kalasalingam University has also signed a Memorandum of Understanding with some of the leading foreign universities and also received students through student exchange programs. The university is also been a home to an extensive student life program to make promising and innovative changes. Offering "one credit" courses by the industry experts for B.Tech students are their specialty which encourages the students to study various online courses by foreign universities. They have recently inaugurated National Cyber Defense Research Centre first of its kind in the state to overcome cyber crimes and bring solutions to it. The university prepares the students for a prospective career in the industry and for higher learning by imparting sound technical knowledge. As an institute of applied learning, they focus on research as well. There are several research centers separately for Multifunctional material, biotechnology, nanotechnology and composite materials. In order to produce competitive professionals from rural area having the right skills and attitude for adapting to the ever changing industry, the people of this university always think of ways to tweak the strategy for better results.