

Shaping the Future

MOVING AWAY FROM CONVENTIONAL METHODS OF TEACHING, ENGINEERING INSTITUTES ARE INTEGRATING ACADEMICS WITH INDUSTRY AND GIVING STUDENTS INTERNATIONAL EXPOSURE

By Harshita Das

More than 10 lakh students sat for their JEE Main (Joint Entrance Examination) this year. Looking at the growing number of engineering institutes across the country and the number of aspirants preparing for their engineering examinations, it is clear that engineering is one of the most sought after streams after medicine and law. With some of the best engineering colleges in the country—there are 23 IITs in India and students get to learn from the best faculty—and IIT Kharagpur leading the pack, engineering as a discipline has undergone a

change. These autonomous public institutes have paved the way for engineering education in a big way offering B Tech, M Tech, doctoral and postdoctoral programmes. And this trend of offering specialised knowledge and skills to students has also been tapped by private players. With changing world economies and digitisation of businesses, most of these institutes have reinvented themselves and introduced new curriculum where the focus is more on learning real time and through projects. In fact, the AICTE (All India Council for Technical Education) has launched

a new curriculum model in January to ensure high quality education in line with global trends. In addition to this, to address the rising problem of unemployment in engineering graduates and give them industry exposure, AICTE has made internships mandatory. In our cover story, we look at some of the best engineering institutes such as IIT Delhi, SRM, VIT and Symbiosis to name a few who are promoting innovation and incorporating new techniques in terms of research, setting high-tech labs and incubators to give students a unique learning experience.



IN TUNE WITH TECH
ENGINEERING INSTITUTES
BOAST MODERN LABS

Photograph A P GUPTA

FACULTY OF ENGINEERING AND TECHNOLOGY MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH AND STUDIES FARIDABAD, HARYANA

Manav Rachna International Institute of Research Studies (MRIIRS) is an

institute where budding engineers are encouraged to excel. The Faculty of Engineering and Technology (FET) at MRIIRS offers students B Tech and M Tech programmes which are in great demand. For B Tech programmes, industrial training is part of the curriculum

besides lectures and visits by industry experts and specialisations in association with industries such as JBM and SuKam in mechanical and electrical engineering. On the other hand, for M Tech programmes, the university offers a number of specialisations in biotechnology, computer networking, power systems and transportation engineering. According to Prashant Bhalla, President, Manav Rachna Educational Institutions, "We have more than 50 collaborations with various universities and institutes internationally for research and academic exchange programmes. We also have tie-ups with National Skill Development Corporation, Indian Oil Corporation (R&D Centre) and Translational Health Science and Technology Institute."

By Shelly Anand



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HANDS-ON STUDENTS ARE EXPOSED TO DIFFERENT TRAINING TECHNIQUES

Photograph SHEKHAR GHOSH

FOCUS ON RESEARCH

The Manav Rachna Research Innovation and Incubation Centre plays an important role in coordinating entrepreneurial education so that students can invest in start-up ventures

SCHOOL OF ENGINEERING AND TECHNOLOGY APEEJAY STYA UNIVERSITY GURGAON, HARYANA

Nestled in a sprawling campus on Sohna Road in Gurgaon, Apeejay Stya University (ASU) is where learning goes way beyond the classroom. If the WiFi-enabled campus makes it possible for students to learn anytime, anywhere then state-of-the-art computer and science laboratories ensure that they get sufficient time and infrastructure to do research on their projects. The university is known for its strong academic programmes and international linkages and the School of Engineering and Technology (SoET) focuses not only on technology but liberal arts as well aligned with latest industry-based course content. The SoET offers four-year programmes in computer science and engineering, cloud computing and electronics and communication engineering besides a PhD in computer science and engineering. Sushma Paul Berlia, Co-found-

CLASS APART

The incubation cell, established in association with the National Enterprising Network and approved by the Ministry of Micro, Small and Medium Enterprises (MSME), nurtures aspiring entrepreneurs with guidance from experts and industry mentorship programmes

er and Chancellor, Apeejay Stya University says, "With focus on cutting edge research and industry outcomes, the engineering curriculum at ASU creates leading engineers." The interdisciplinary approach makes it possible for students to choose their own majors and minors. So, a student pursuing a major in engineering can also take up a minor in mass communications.

By Shelly Anand



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