

Self Learning

“You’re already *Smart*. Now get *Smarter*”

The curriculum includes compulsory institute core courses for all B. Tech students that are designed for overall development of student to evolve into a complete human being, and all of these components are not strictly restricted to prescribed syllabus but give freedom to student to pursue topics of interest.

These include:

- Value-added courses beyond syllabus are introduced to expose the students to software /hardware trends not included in their curriculum.
- Work-experience courses
- Cultural Education
- Career and employment courses
- Rural women empowerment
- Open elective Courses
- Social Service
- The students have to pursue following curricular components which require them to expand the boundaries of learning and exercise self-learning.

These components include

- Project Work / FSI
- Internship programs
- Seminars and Group discussion
- Lab courses that uses software tools for simulation

Further, students are encouraged to participate in student competitions, hackathons, and Technical paper presentations etc. which provide scope for learning beyond the prescribed syllabus. The institute provides following facilities for the students for supporting self-learning course includes a full set of e-Learning / Early Learning.

This platform creates an online learning, assessment and evaluation platform, focused on helping students clear initial screening tests of campus recruiters in an automated way.

Platforms for Self Learning :

S. No	Website	Description
1	www.coursera.org	Coursera is an education platform that partners with top universities and organizations worldwide, to offer courses online for anyone to take.
2	www.khanacademy.org	Khan Academy is a non-profit educational organization created in 2006. The aim of providing a free, world-class education for anyone, anywhere. The organization produces short lectures in the form of YouTube videos.
3	ocw.mit.edu/index.htm	MIT (Massachusetts Institute of Technology) Open Course Ware (OCW) is a web-based publication of virtually all MIT course content. OCW is open and available to the world and is a permanent MIT activity.
4	oli.cmu.edu/learn-with-oli/see-our-free-open-courses/	The Open Learning Initiative (OLI) is a grant-funded group at Carnegie Mellon University, offering innovative online courses to anyone who wants to learn or teach.
5	www.udemy.com	Udemy.com is a platform or marketplace for online learning. It provides a platform for experts of any kind to create courses which can be offered to the public, either at no charge or for a tuition fee. Udemy provides tools which enable users to create a course, promote it and earn money from student tuition charges.
6	www.codecademy.com	Codecademy is an online interactive platform that offers free coding classes in 9 different programming languages including Python, Java, PHP, JavaScript (jQuery, AngularJS), and Ruby, as well as markup languages HTML and CSS. The platform also provides courses for learning command line and Git.
7	www.udacity.com	Learn for free with Udacity. Advance your career with courses built by industry leaders like Google, Mongo DB, and Facebook.

8	www.codechef.com	CodeChef is a platform to help programmers make it big in the world of algorithms, computer programming and programming contests.
9	www.geeksforgeeks.org	Geeksforgeeks provides a variety of services for you to learn, thrive and also have fun. Free Tutorials, Millions of Articles, Live, Online and Classroom Courses ,Frequent Coding Competitions ,Webinars by Industry Experts, Internship opportunities and Job Opportunities.
10	www.interviewbit.com	InterviewBit is a platform to learn skills that you need for technology jobs. We help you polish your skills and get ready for the job, whether you are a fresh college graduate or a working professional.
11	www.spoj.com	The SPOJ platform is centered around an online judge system, which serves for the automatic assessment of user-submitted programs.
12	www.hackerrank.com	HackerRank is a technology hiring platform that is the standard for assessing developer skills for over 2,000+ companies around the world.
13	www.scaler.com	Scaler Academy is an online accelerator program that effectively enhances the coding skills of software professionals.
14	www.upskillcourses.com	Upskill is a free online boot camp that'll take you from beginner to advanced developer. The main focus of the course is teaching you web development, and it's a great place to start, even if you have no experience.
15	www.codeforces.com	Codeforces is a website that hosts competitive programming contests. It is maintained by a group of competitive programmers from ITMO University led by Mikhail Mirzayanov.
16	www.onlinejudge.org	An online judge is an online system to test programs in programming contests. They are also used to practice for such contests. Many of these systems organize their own contests.
17	www.edx.org	edX is a massive open online course (MOOC) provider. It hosts online university-level courses in a wide range of disciplines to a worldwide student body, including some courses at no charge. It also conducts research into learning based on how people use its platform.
18	www.w3schools.com	W3Schools is a web developers site, with tutorials and references on web development languages such as HTML, CSS, JavaScript, PHP, SQL, and JQuery, covering most aspects of web programming. The site derives its name from the World Wide Web (W3), but is not affiliated with the W3C. W3Schools was originally created in 1998, by Refsnes Data, a Norwegian software development and consulting company.
19	www.spoken-tutorial.com	The Spoken Tutorial project is the initiative of the 'Talk to a Teacher' activity of the National Mission on Education through Information and Communication Technology (ICT), launched by the Ministry of Human Resources and Development, Government of India.
20	www.vlab.co.in	To provide remote-access to Labs in various disciplines of Science and Engineering. These Virtual Labs would cater to students at the undergraduate level, post graduate level as well as to research scholars. To provide a complete Learning Management System around the Virtual Labs where the students can avail the various tools for learning, including additional web- resources, video-lectures, animated demonstrations and self evaluation.