



SHADAN COLLEGE OF ENGINEERING & TECHNOLOGY

Permitted by Govt.of.TS, Approved by AICTE and Affiliated to J.N.T.U Hyderabad

Peerancheru, Hyderabad – 86

ICT enabled tools for effective teaching-learning process

Facilities » ICT Facilities

Information and Communication Technology or ICTs allow users to participate in a rapidly changing world in which works and other activities are increasingly transformed by access to varied and developing technologies. The Indian Information Technology and industry accounts for a 5.9% of the country's GDP and export earnings as of 2009, while providing employment to a significant number of its tertiary sector workforce. More than 2.3 million people are employed in the sector either directly or indirectly, making it one of the biggest job creators in India and a foundation of the national economy.

Use of ICT

ICT tools can be used to find, discover, analyze, exchange and present information responsibly and without bias. ICT can be engaged to give users quick access to ideas and understandings from a wide range of people, communities and cultures.

ICT in Education

Realizing the importance of Information and Communication Technology (ICT) the Ministry of Human Resource Development (MHRD) as per the Mission Document, ICT is the tool in education available to enhance the present enrolment rate in Higher Education, at present 15 percentages to 30 percentages by the end of the 11th Plan period.

The Ministry also initiated a web portal named “SAKSHAT” a ‘One Stop Education Portal’. The high quality e-content once urbanized will be uploaded on SAKSHAT in all discipline and subjects. Several projects are in the finishing stage and are expected to change the way teaching and learning is done in India.

SCET-ICT enabled tools for effective Teaching-Learning Process

ICT links

FACULTY INNOVATIONS IN TEACHING-LEARNING

[Faculty-Innovation.docx](#)

NPTEL FACILITY

a) NPTEL LOCAL SERVER

[NPTEL-LOCAL-CHAPTER.docx](#)

b) SWAYAM-NPTEL LOCAL CHAPTER

[Swayam-NTEL-LOCAL-CHAPTER.docx](#)

c) SWAYAM-NPTEL PARTICIPATION-FACULTY AND STUDENTS

<https://swayam.gov.in/>

d) NPTEL VIDEOS

<https://nptel.ac.in/course.html>

STUDENTS AUTOMATION

[STUDENTS AUTOMATION.doc](#)

SCET ICT-MOOCs YOUTUBE CHANNEL

<https://www.youtube.com/channel/UCAspn84fr7V93ria24UoHGg>

e-RESOURCES

<http://164.100.247.26/Search/Home>

USEFUL ICT LINKS

ICT Supported Learning

e - Resource for e-Content - Useful ICT links

"SAKSHAT" a One Stop Education Portal

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[.http://www.sakshat.ac.in/](http://www.sakshat.ac.in/)

SWAYAM- Study Webs of Active –Learning for Young Aspiring Minds

SWAYAM is a programme launched by the Government of India and designed to attain the three key principles of Education Policy viz., access, equity and quality. The objective of this attempt is to obtain the best teaching learning resources to all. SWAYAM seeks to bridge the digital tool for students who have hitherto remained untouched by the digital revolution and have not been able to join the mainstream of the knowledge economy.

<https://swayam.gov.in/>

NPTEL-National Programme on Technology Enhanced Learning

The National Programme on Technology Enhanced Learning (NPTEL) was launched by seven Indian Institutes of Technology (Bombay, Delhi, Kanpur, Kharagpur, Madras, Guwahati and Roorkee) along with the Indian Institute of Science, Bangalore in 2003. Major online repository in the world of courses in engineering, basic sciences and chosen humanities and social sciences subjects

<https://nptel.ac.in/course.php>

NPTEL MOOCs

NPTEL started to offer open online courses in March 2014 along with certificates from the IITs/IISc for those who finished the courses successfully. Massive Open Online Courses (MOOC) is basically an asynchronous platform and a process for teaching through pre-recorded lectures, resource video materials, lecture notes, assignments and quizzes, which are usually online and provide self assessment in regular interval during learning. The online courses offered by NPTEL, unlike other popular MOOCs portals, include courses from all disciplines of Engineering such as Biotechnology, Ocean Engineering, and Metallurgical Sciences etc apart from the accepted ones such as Computer Science Engineering or Electrical Engineering. Examples of some such courses are Cell Culture Technologies, Forest Biometry, Integral equations, calculus of variations and its applications, Solid state physics, Regression Analysis, etc.

<https://onlinecourses.nptel.ac.in/>

DELNET- Developing Library Network

DELNET was begun in the India International Centre Library in January 1988 and was registered as a society in 1992. Initially, it was supported by the National Information System for Science and Technology (NISSAT), Department of Scientific and Industrial Research, Government of India. It was consequently supported by the National Informatics Centre, Department of Information Technology, Ministry of Communications and Information Technology, Government of India and the Ministry of Culture, Government of India.

DELNET has been established with the main objective of encouraging resource sharing among the libraries through the development of a network of libraries. It aims to collect, store, and propagate information besides offering computerized services to users, to coordinate efforts for suitable collection development and also to decrease unnecessary repetition wherever possible.

<http://delnet.nic.in/>

IET Digital Library

The IET- Institution of Engineering and Technology Digital Library embraces more than 190,000 technical papers from 1994 onwards for all IET journals, magazines, books, conference publications and seminar digests. Well referred journals are offered along with 24 research journal titles, The Journal of Engineering, Micro & Nano Letters, the IET's online

only journal, the IET's member magazine Engineering & Technology, plus seminar digests and conference publications.

<http://digital-library.theiet.org/>

Coursera

Coursera offers universal access to the world's best education, associating with top universities and organizations to offer courses online.

<https://www.coursera.org/>

ICT Supported Learning @ SCET

Faculty enrolling NPTEL online courses of their own concern and appearing for Certification Exam conducted by NPTEL. Faculty inspiring students under their mentorship to enroll NPTEL courses and then solving assignments with the help of concerned faculty, listening NPTEL videos and appearing for certification exam. Faculty prepares power point slides on some theoretical concepts and having difficult diagrams and then presents in the relevant class rooms.







COURSE
CERTIFICATE

04/28/2020

shahariyar mohammed khan

has successfully completed

Robotics: Aerial Robotics

an online non-credit course authorized by University of Pennsylvania and offered through
Coursera



Vijay Kumar

Vijay Kumar
Hemminger Family Dean of Penn Engineering

Verify at coursera.org/verify/4HAY15gWH7HS
Coursera has confirmed the identity of this individual and
their participation in the course.

The online course named in this certificate may derive its material from courses taught on-campus, but it is not equivalent to an on-campus course. Participation in this online course does not constitute enrollment at the University of Pennsylvania. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.