

NPTEL (National Program on Technological Enhanced Learning):

NPTEL provides E-learning through online Web and Video courses in Engineering, Science and humanity streams. The mission of NPTEL is to enhance the quality of Engineering education in the country by providing free online courseware.

URL: Online Access <http://nptel.ac.in/>

Offline Access : NPTEL

National Digital Library of INDIA:

The National Digital Library is a new initiative of National Knowledge Commission, Ministry of Human Resources Development, Government of India, under its national mission on education through Information and Communication Technology has initiated the National Digital Library of India (NDL India) pilot project to develop a framework of virtual repository of various types of learning resources with single window search facility. NDL India is designed to hold content of any language and provide interface support for leading Indian languages. NDL has the facility of provide support to all academic levels including researchers and lifelong learners in all disciplines. Any individual can access the NDL content after formal online registration. Academic institutions are also eligible to register under NDL Institutional Registration Form. After registration we have to send all our users details, all our members will receive the validation link for accessing the content and they can access the content.

URL: <https://ndl.iitkgp.ac.in/>

ePGpathshala :

An MHRD, under its National Mission on Education through ICT (NME-ICT), has assigned work to the UGC for development of e-content in 77 subjects at postgraduate level. The content and its quality is the key component of education system. High quality, curriculum-based, interactive content in different subjects across all disciplines of social sciences, arts, fine arts and humanities, natural and mathematical sciences, linguistics and languages is being developed under this initiative named e-PG Pathshala.

URL:<http://epgp.inflibnet.ac.in/>

Mobile App of ePGpathshala : <http://epathshala.nic.in/>

Swayam Program:

SWAYAM is a programme initiated by Government of India and designed to achieve the three cardinal principles of Education Policy viz., access, equity and quality. The objective of this effort is to take the best teaching learning resources to all, including the most disadvantaged. SWAYAM seeks to bridge the digital divide for students who have hitherto remained untouched by the digital revolution and have not been able to join the mainstream of the knowledge economy. This is done through an indigenously developed IT platform that facilitates hosting of all the courses, taught in classrooms from 9th class till post-graduation to be accessed by anyone,

anywhere at any time. All the courses are interactive, prepared by the best teachers in the country and are available, free of cost to the residents in India. More than 1,000 specially chosen faculty and teachers from across the Country have participated in preparing these courses. The courses hosted on SWAYAM will be in 4 quadrants – (1) video lecture, (2) specially prepared reading material that can be downloaded/printed (3) self-assessment tests through tests and quizzes and (4) an online discussion forum for clearing the doubts. Steps have been taken to enrich the learning experience by using audio-video and multi-media and state of the art pedagogy technology.

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

Swayam Prapha:

The SWAYAM PRABHA is a group of 32 DTH channels devoted for telecasting of high-quality educational programmes on 24X7 basis using the GSAT-15 satellite. Every day, there will be new content for at least (4) hours which would be repeated 5 more times in a day, allowing the students to choose the time of their convenience. The channels are uplinked from BISAG, Gandhinagar. The contents are provided by NPTEL, IITs, UGC, CEC, IGNOU, NCERT and NIOS. The INFLIBNET Centre maintains the web portal. For higher education, Curriculum-based course contents at post-graduate and under-graduate level covering diverse disciplines such as arts, science, commerce, performing arts, social sciences and humanities, engineering, technology, law, medicine, agriculture, etc. All courses would certification in their detailed offering through SWAYAM, the platform being developed for offering MOOCs courses.

URL : <https://www.swayamprabha.gov.in/>

Robotics for Education E-Yantra:

e-Yantra is an initiative by MHRD to incorporate Robotics into engineering education with the objective of engaging students and teachers through exciting hands-on application of math, computer science, and engineering principles.

URL : <http://e-yantra.org/>

E-Kalpa (Creating Design):

'Creating Digital-learning Environment for Design' also called 'e-kalpa' is sponsored by the Ministry of Human Resources, Government of India as part of the National Mission on Education through Information and Communication Technology. The main intention is the creation of new learning environments that will provide access to acquisition of critical knowledge, skills, and abilities in the field of design.

URL : <http://www.dsource.in/course>

OTHER RESOURCES

MIT Open Courseware:

MIT OpenCourseWare (OCW) is a web-based publication of virtually all the MIT course

content. OCW is open and available to the world and is a permanent MIT activity.

[URL :https://ocw.mit.edu/index.htm](https://ocw.mit.edu/index.htm)

Edx e-learning Program:

Founded by Harvard University and MIT in 2012, edX is an online learning destination and MOOC provider, offering high-quality courses from the world's best universities and institutions to learners everywhere. With more than 90 global partners, we are proud to count the world's leading universities, nonprofits, and institutions as our members. EdX university members top the QS World University Rankings with our founders receiving the top honors, and edX partner institutions ranking highly on the full list.

[URL : https://www.edx.org/](https://www.edx.org/)

Udacity e-learning :

University by Industry: Udacity is building an online university, "by Silicon Valley", that: teaches the skills that industry employers need today; delivers credentials endorsed by employers; educates at a fraction of the cost of traditional schools. The learners will acquire real skills through a series of online courses and hands-on projects.

[URL :https://udacity.com](https://udacity.com)

Coursera Program:

Coursera provides universal access to the world's best education, partnering with top universities and organizations to offer courses online. Every course on Coursera is taught by top instructors from the world's best universities and educational institutions. Courses include recorded video lectures, auto-graded and peer-reviewed assignments, and community discussion forums. All the learners will receive a sharable electronic Course Certificate.

[URL :https://coursera.org](https://coursera.org)