



हिमाचल प्रदेश केंद्रीय विश्वविद्यालय Central University of Himachal Pradesh

कैंप कार्यालय, जिला-काँगड़ा, हिमाचल प्रदेश-176215

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दिनांक: 22.04.2020

सूचना

मानव संसाधन विकास मंत्रालय द्वारा सूचना तथा संचार प्रौद्योगिकियों संबंधी विभिन्न पहलों (ICT Initiatives of MHRD) से संबंधित समेकित सूचनाएं / लिंक एवं ई-ब्रोशर सभी शिक्षकों एवं शोधार्थियों – विद्यार्थियों के अधिकाधिक उपयोग एवं शोधार्थियों - विद्यार्थियों के मध्य व्यापक प्रसार के लिए **संलग्न** है।

(डॉ. संजीव शर्मा)
कुलसचिव (अतिरिक्त प्रभार)

संलग्न : यथोपरि

पृष्ठांकन : समसंख्या











दिनांक: 22.04.2020


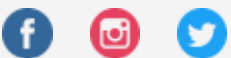

प्रति : कृपया निम्नलिखित को सूचनार्थ एवं आवश्यक आगामी कार्रवाई हेतु












1. प्रति-कुलपति, हिमाचल प्रदेश केंद्रीय विश्वविद्यालय, धर्मशाला, जिला – काँगड़ा (हि.प्र.)
2. अधिष्ठाता, छात्र कल्याण, हिमाचल प्रदेश केंद्रीय विश्वविद्यालय, धर्मशाला, जिला – काँगड़ा (हि.प्र.)
3. परीक्षा नियंत्रक, हिमाचल प्रदेश केंद्रीय विश्वविद्यालय, धर्मशाला, जिला – काँगड़ा (हि.प्र.)
4. विश्वविद्यालय के सभी स्कूलों/विभागों/केंद्रों/चेयर के अधिष्ठाता/विभागाध्यक्ष/निदेशक/चेयर प्रोफेसर
5. वित्त अधिकारी, हिमाचल प्रदेश केंद्रीय विश्वविद्यालय, धर्मशाला, जिला – काँगड़ा (हि.प्र.)
6. सभी विभागों/केंद्रों के शिक्षकगण / शिक्षकेतर कर्मी
7. जनसूचना अधिकारी, हिमाचल प्रदेश केंद्रीय विश्वविद्यालय, धर्मशाला, जिला – काँगड़ा (हि.प्र.)
8. सहायक निदेशक (रा.भा.) एवं कुलपति के विशेष कार्य अधिकारी – कृपया माननीय कुलपति के सूचनार्थ

कुलसचिव

ICT Initiatives of MHRD (with e-Brochure)

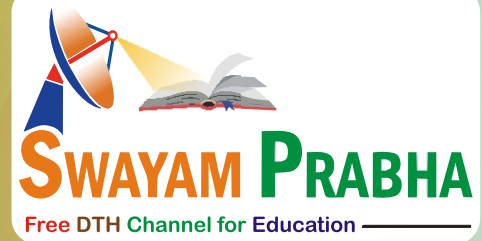
S.No.	Resource	For students/Researchers	For Institutions
Audio-Video e-content			
1	<p>SWAYAM: Massive Open Online Courses</p> <p>   </p>	Earn credit through online courses	<ul style="list-style-type: none"> - Encourage your extraordinary faculty to develop online courses - Accept credits awarded under SWAYAM - Form SWAYAM local chapters
2	<p>SWAYAMPBABHA: View digital courses on TV</p>	Watch high quality educational programs 24*7	Provide facility for viewing SWAYAMPBABHA content
			
Digital content: access journals and e-books			
1	<p>National Digital Library: e-content</p> <p>    </p>	Access e-content on multiple disciplines	<ul style="list-style-type: none"> - Get your E-content listed - Form NDLC Club
2	<p>e-PG Pathshala: Gateway for e-books upto PG</p>	Get free books and curriculum-based e-content	Host e-books

S.No.	Resource	For students/Researchers	For Institutions
Audio-Video e-content			
3	Shodhganga : A reservoir of Indian Theses	Access Research Theses of scholars of Indian Institutes	Get research theses of your scholars to get listed on Shodhganga
4	e-ShodhSindhu : e-journals	Get access to full text e-resources	Get access to full-text e-resources
Accelerated Hands on learning			
1	e-Yantra : Engineering for better tomorrow 	Get hands on experience on embedded systems	Create e-Yantra labs for training in embedded systems in collaboration with IIT Bombay
2	FOSSEE : Free/Libre and Open Source Software for Education 	- Access and volunteer for the use of open source software - Become FOSSEE fellow	Run labs in open source
3	Spoken Tutorial : Tutorial in IT application 	Self-training in IT fields	Encourage eminent faculty to provide training content for self-learning
4	Virtual Labs : Web-enabled experiments designed for remote – operation	Try curriculum based virtual experiments	Develop virtual experiments for Virtual labs suited to course

S.No.	Resource	For students/Researchers	For Institutions
Audio-Video e-content			
	  		curriculum in gap areas
E - Governance			
1	University Enterprise Resource Planning (SAMARTH)    	Student development Life Cycle	E-Governance for Institutions/Universities
Track your progress			
1	VIDWAN: Expert Database and National Research Network  IRINS: Indian Research Information Network System	Register on VIDWAN	Get your faculty registered on VIDWAN - Monitor research outcomes at different levels
2	Shodh Shudhhi (PDS): Plagiarism Detection Software   	Unique ideas, concepts and information without duplication.	<ul style="list-style-type: none"> - Encourage original information by preventing plagiarism. - Better research outcomes. - Reputation of the institution/university.

S.No.	Resource	For students/Researchers	For Institutions
Audio-Video e-content			
Note: For any queries/feedback kindly contact Ms. Malathi Narayanan (http://new.nmeict.ac.in) at nmeict@nmeict.ac.in/011-23385220.			

Digital Initiatives in Higher Education



MHRD

Government of India
Ministry of Human Resource Development

SWAYAM is India's own MOOCs platform offering online courses on all disciplines viz. Engineering, Law, Management, Humanities & Social Sciences and Professional Courses. It is designed to achieve the three cardinal principles of Education Policy - Access, Equity and Quality. SWAYAM is an indigenously developed Cloud based IT platform that facilitates hosting of all the courses, taught in classrooms from 9th standard till Post-Graduation to be accessed by Anyone, Anytime, Anywhere free of cost. All the courses are interactive, prepared by reputed teachers in the country and accessible through computers / mobile phones.

Launched on 9th July 2017

Anyone, Anytime, Anywhere Learning free of cost



Enrollments » 1.25+ Crores

Courses on SWAYAM » 2,867

Courses in Jan-2020 Semester » 567

No. of Students Certified » 5+ Lac.

National Coordinators



UGC : PG Non Engineering



CEC : UG Non Engineering



NPTEL : UG & PG Engineering



IIMB : Management



IGNOU : Certificate & Diploma



NITTTR : Teacher Training



NIOS : Open School 9th to 12th



NCERT : School 9th to 12th



AICTE : Annual Refresher Programme in Teaching (ARPTT) & Foreign Universities

SWAYAM - Continuous Learning Experience

Download SWAYAM applications from popular app stores



Swayam helpline: 18001219025 | email: support@swayam.gov.in

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

Key Features

Credit Transfer

- ✓ Upto 20% Credit Transfer Facility Available for the Enrolled Students. Necessary regulations issued by UGC and AICTE.

Integration with Conventional Education

- ✓ Schedule of SWAYAM Courses aligned with Conventional Semester to facilitate easy Credit Transfer.

Final Proctored Examination

- ✓ The SWAYAM final proctored examination is conducted twice in a year (May & November) across the country in about 200 Centres (for both Computer Based Test and Pen & Paper Test).

Local Chapter

- ✓ 3800+ Local Chapters established in Educational Institutions for:
 - To Spread Awareness among Faculty & Students.
 - Facilitate use of SWAYAM Course in Blended or Flip Classroom Mode.

Online Degree Programme

- ✓ Top Ranking Universities to offer Online Degree Programme through SWAYAM.

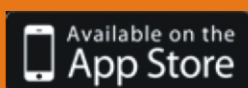
Annual Refresher Programme In Teaching (ARPIT)


- ✓ Faculty Development Programme for 1.3 Million Teachers.

Global Reach

- ✓ SWAYAM Courses being offered to African Students in more than 20 African Countries under the e-VBAB Project of Ministry of External Affairs (Govt. of India). MoU signed with Afghanistan for sharing of SWAYAM resources.

Download SWAYAM applications from popular app stores





SWAYAM PRABHA

Free DTH Channel for Education

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

Launched on 9th July 2017

SWAYAM PRABHA is an initiative to provide 32 high quality educational channels through DTH (Direct to Home) across the length and breadth of the country on 24X7 basis. This would enable to deliver e-education in a most cost effective & inclusive manner.

Higher Education: Curriculum-based course contents at post-graduate and under-graduate level.

IIT PAL: To assist the student in the classes 11 and 12 aspiring to join IITs.

School Education (9-12 levels): Modules for teacher's training as well as teaching and learning aids for children of India.

Curriculum-based courses that can meet the needs of life-long learners of Indian citizens in India and abroad.

Freely Available on DD Free Dish , Dish Tv (Zee) and Jio mobile app

Every day, there will be new content for at least (4) hours which would be repeated 5 more times in a day.

Channels uplinked from BISAG , Gandhinagar using 2 transponders of GSAT-15 Satellite.

The content for Swayam Prabha Channels are provided by NPTEL, IITs, UGC CEC, IGNOU, NCERT and NIOS

CONTACT US

swayamprabha@inlibnet.ac.in

+91 79-23268347 (Available on Monday To Friday from 9:30 AM To 6:00 PM)



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



National Digital Library of India (NDLI)

(<https://www.ndl.gov.in/>)

National Digital Library of India (NDL India) provides a framework of virtual repository of learning resources with a single-window search facility.

- ◆ 24x7 learning resource
- ◆ Accessible by any one , from anywhere and anytime
- ◆ Single window search facility with filters through which users can personalise.
- ◆ More than 3.8 Crore e-books/journals/audio books/question banks.
- ◆ Contents are available in 200 + Languages
- ◆ Registrations : 52 lakh +
- ◆ Number of institutions: 13,352
- ◆ Mobile App downloads : 14.1 Lakhs



<https://www.ndl.gov.in>

Launched on 19th June 2018

NATIONAL DIGITAL LIBRARY OF INDIA

Central Library • Indian Institute of Technology Kharagpur •
Kharagpur, West Bengal, India - 721302
+91-3222-282435 • ndl-support@iitkgp.ac.in



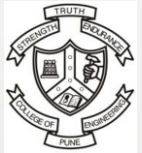
National
Digital Library
of India



VIRTUAL LABS

<http://www.vlab.co.in/>

Participating Institutes



Virtual Labs provides a fully interactive simulation environment to perform experiments, collect data, and answer questions to assess the understanding of the knowledge acquired. In order to achieve the objectives of such an ambitious project, it is essential to develop virtual laboratories with state-of-the-art computer simulation technology to create real world environments and problem handling capabilities. IIT Delhi as the Nodal Institute with other 10 institutes is understanding this initiative.

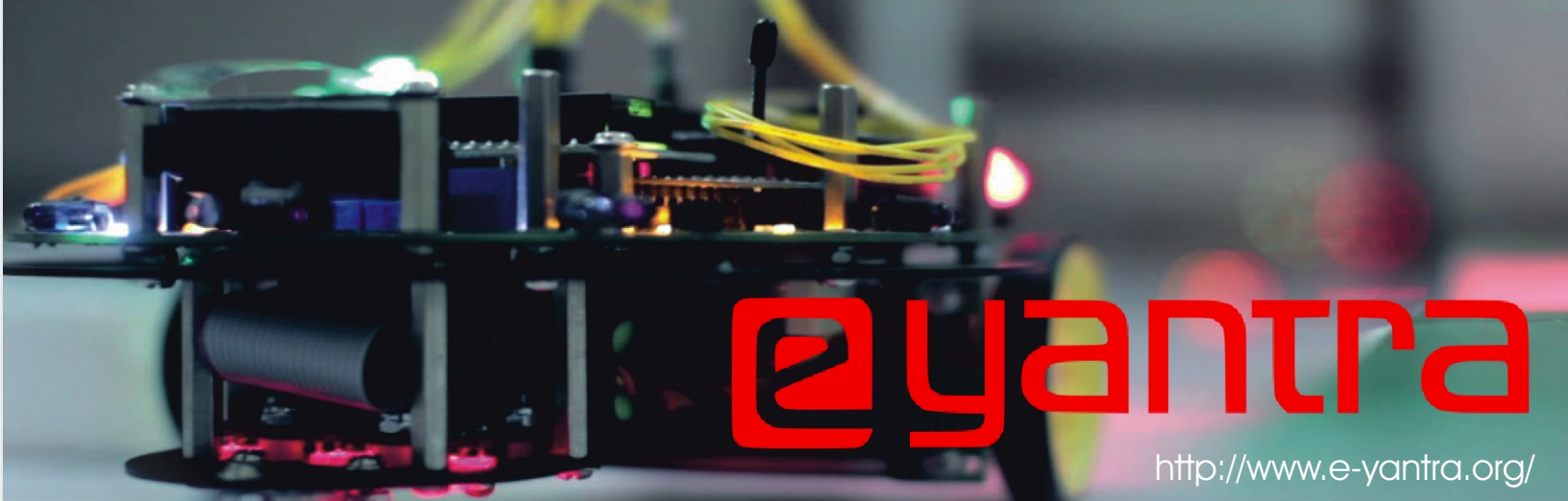
- To provide remote-access to Labs in various disciplines of Science and Engineering*
- Implemented by IIT Delhi.*
- To share costly equipment and resources, which are otherwise available to limited number of users due to constraints on time and geographical distances.*
- Cover 100 Virtual Labs, approximately 1000+ web-enabled experiments.*

Wireless Research Lab
Room No - 206/IIA, Bharti School of Telecom
Indian Institute of Technology Delhi, Hauz Khas, New Delhi-110016

Phone : 011-26582050 | Email : support@vlab.co.in



<http://www.vlab.co.in/>



eYantra

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

E-Yantra enable the effective education across engineering colleges in India on embedded systems and Robotics. The training for teachers and students is imparted through workshops where participants are taught basics of embedded systems and programming. Engagement of teachers and students in hands-on experiments with robots by way of competition-event is another innovative method of problem-solving with out-of-box solutions. e-Yantra also helps colleges to set-up Robotics labs/clubs to make it a part of their routine training curriculum. More than 275 colleges across India have benefited with this initiative. All the projects and code are available on the e-Yantra web-site www.e-yantra.org as open source content.

- ☞ **Promoting robotics as multi-disciplinary engineering project**
 - **Supporting innovation by students**
 - **Learning by doing through group work**
- ☞ **Train teachers to teach engineering better**
- ☞ **A project by IIT Bombay**
- ☞ **e-yantra Lab Setup initiative (eLSI) supports infrastructure creation**
- ☞ **e-yantra competitions are held across colleges to create awareness**
- ☞ **296 Labs established in 32+ regions , propose to establish 500 + labs**
- ☞ **Over 2115 Teachers trained**
- ☞ **5,932 Total Teams participated in e-Yantra Robotics Competition (eYRC)**

ERTS Lab,
First Floor, KReSIT Building,
IIT Bombay, Powai,
Mumbai - 400076, Maharashtra

Phone : 022 2576 4986, 022 25720184
Email : support@e-yantra.org



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



FREE AND OPEN SOURCE SOFTWARE IN EDUCATION
<https://fossee.in/>

FOSSEE promotes the use of open source software in educational institutions (<http://fossee.in>). It does through instructional material, such as spoken tutorials, documentation, such as textbook companions, awareness programmes, such as conferences, training workshops, and Internships. Textbook Companion (TBC) is a collection of code for solved examples of standard textbooks.

- ✓ **FOSSEE project (<http://fossee.in>) has been promoting use of open source software in educational institutions.**
- ✓ **A project by IIT Bombay.**
- ✓ **Textbook Companion (TBC) is a collection of code for solved examples of standard textbooks. 1,000 TBCs have been created in Scilab and Python alone.**
- ✓ **FOSSEE is promoting the well established open source software: Open Foam, an alternative to the proprietary software Fluent for computational fluid dynamics.**
- ✓ **DWSIM, an alternative to the proprietary software Aspen Plus, for chemical process simulation. eSim, an electronic design automation software, an alternative to ORCAD.**

CFD - Lab, Aero. Annex Building,
Below HSS Dept., Opp. Metallurgical Dept.
IIT Bombay, Powai, Mumbai - 400076
Maharashtra

Phone : 022-25764133 | Email : info@fossee.in



<https://fossee.in/>