



MAHATMA GANDHI CENTRAL UNIVERSITY, BIHAR

[A Central University established by an Act of Parliament]

Dr Ambedkar Administrative Building, Raghunathpur, Motihari, District – East Champaran, Bihar

Email: osdadmin@mgcub.ac.in

F. No.: 2-1/MGCUB/GA/2016/4728

Dated: 25th April 2020

CIRCULAR

Subject: ICT Initiatives of MHRD (with e-Brochure) – Reg.

1. A copy of '**e-Brochure: Digital Initiatives in Higher Education**' prepared by Ministry of Human Resource Development, Government of India, New Delhi and **Information/Links** in respect of **ICT Initiatives of MHRD** are forwarded herewith for ready reference of teachers, researchers and students of the University.
2. All teachers, researchers and students can utilise this period of lockdown productively by engaging in **On-line learning**. Several ICT initiatives as referred in the attachment, in the form of digital platforms can be accessed by the teachers, researchers and students for broadening their horizon of learning.
3. This is issued with the approval of the Competent Authority.

[DR PADMAKAR MISHRA]

OSD (Administration)
MAHATMA GANDHI CENTRAL UNIVERSITY
Camp Office, Near GP Thana
Raghenstipur, Motihari - 845 401
District - East Champaran, Bihar (INDIA)

Encl: As stated above



Copy of the above forwarded to following for information and necessary action:






1. Notice Board/University Website – for information of all concerned
2. Prof. Anand Prakash, Coordinator, IQAC
3. The OSD (Finance)/CoE/Campus Directors/Deans/DSW/Heads/Deputy Registrars/Proctor/Provost, MGCU
4. System Analyst – *with the request to upload the same on University Website.*
5. Public Relations Officer, MGCU
6. PS to the Vice-Chancellor - *for kind information of the Hon'ble Vice-Chancellor please.*
7. Guard File





[DINESH HOODA]

Section Officer
MAHATMA GANDHI CENTRAL UNIVERSITY
Camp Office, Near GP Thana
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District - East Champaran, Bihar (INDIA)

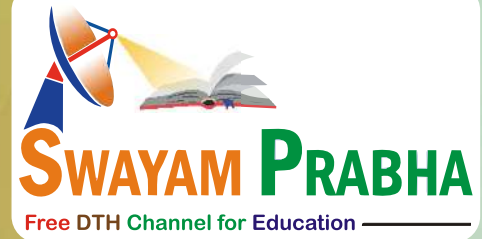
ICT Initiatives of MHRD (with e-Brochure)

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>SWAYAMPBHA: View digital courses on TV</p>	Watch high quality educational programs 24*7	Provide facility for viewing SWAYAMPBHA 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 NDL Club
2	<p>e-PG Pathshala: Gateway for e-books upto PG</p>	Get free books and curriculum-based e-content	Host e-books
3	<p>Shodhganga: A reservoir of Indian Theses</p>	Access Research Theses of scholars of Indian Institutes	Get research theses of your scholars to get listed on Shodhganga

S.No.	Resource	For Students/ Researchers	For Institutions
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 curriculum in gap areas
E - Governance			
1	University Enterprise Resource Planning (SAMARTH) 	Student development Life Cycle	E-Governance for Institutions/Universities

S.No.	Resource	For Students/ Researchers	For Institutions
Track your progress			
1	<p>VIDWAN: Expert Database and National Research Network</p>  <p>IRINS: Indian Research Information Network System</p>	Register on VIDWAN	<p>Get your faculty registered on VIDWAN</p> <ul style="list-style-type: none"> - Monitor research outcomes at different levels
2	<p>Shodh Shudhhi (PDS): Plagiarism Detection Software</p>   	<p>Unique ideas, concepts and information without duplication.</p>	<ul style="list-style-type: none"> - Encourage original information by preventing plagiarism. - Better research outcomes. - Reputation of the institution/university.
<p>Note: For any queries/feedback kindly contact Ms. Malathi Narayanan (http://new.nmeict.ac.in) at nmeict@nmeict.ac.in/011-23385220.</p>			

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



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

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+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



Participating Institutes



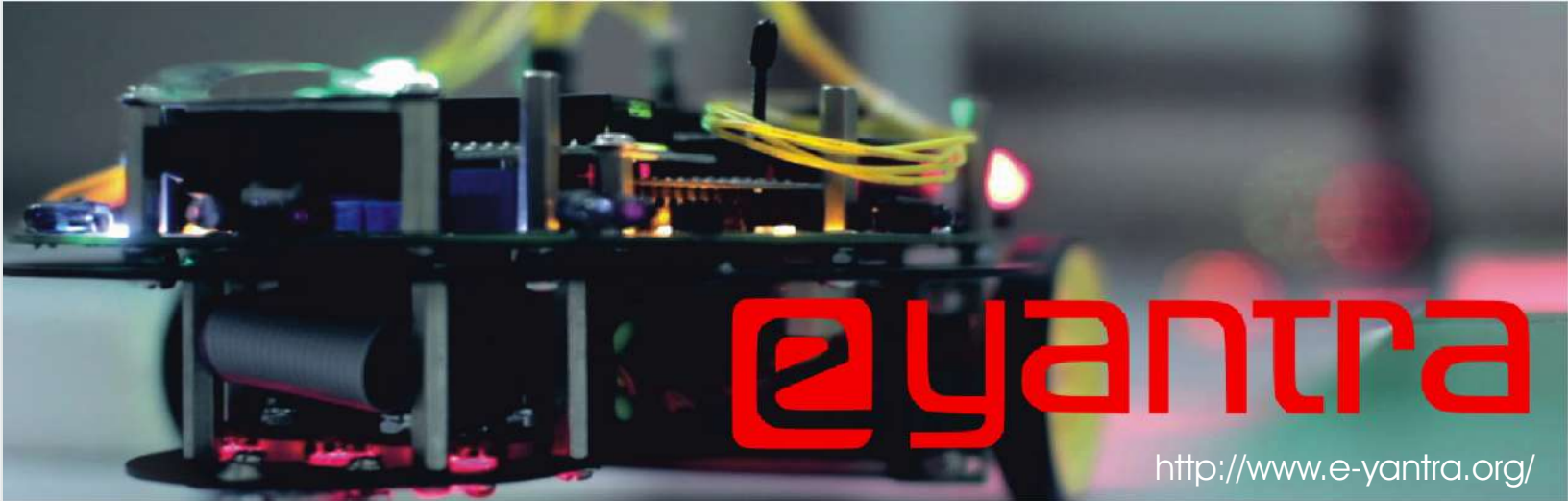
IIT, HYDERABAD



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.*





<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)**

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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,
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<https://fossee.in/>