

GOVERNMENT OF INDIA
MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY
RAJYA SABHA
UNSTARRED QUESTION No. 2084
TO BE ANSWERED ON: 11.07.2019

NEW E-LEARNING PROJECTS

2084. SHRI K. C. RAMAMURTHY:

Will the Minister of ELECTRONICS AND INFORMATION TECHNOLOGY be pleased to state:

- (a) whether any new e-Learning projects have been approved by Government;
- (b) if so, the details thereof;
- (c) the status thereof and whether they are on track to meet their deadlines;
- (d) if not, by when they are likely to be completed; and
- (e) the details and status of ongoing e-Learning projects in Karnataka?

ANSWER

MINISTER OF ELECTRONICS AND INFORMATION TECHNOLOGY
(SHRI RAVI SHANKAR PRASAD)

(a) to (e): Department of Higher Education, Ministry of Human Resource Development(MHRD) is administering a programme 'National Mission on Education through Information and Communication Technology' (NMEICT) to leverage the potential of ICT to make the best quality contents accessible to all learners in the country, free of cost. The various e- initiatives under this programme are as under:

- **SWAYAM:** The 'Study Webs of Active Learning for Young Aspiring Minds' (SWAYAM) is an integrated platform for offering online courses and covering school (9th to 12th) to Post Graduate Level. Till now, 2769 MOOCs (Massive Open Online Courses) have been offered on SWAYAM, wherein about 1.02 crore students have enrolled to various courses till date. The online courses are being used not only by the students but also by the teachers and non-student learners, in the form of lifelong learning. It may be accessed on swayam.gov.in . Against a target of 1350 courses, 1400 new courses have been developed.
- **National Digital Library (NDL):** The National Digital Library of India (NDL) is a project to develop a framework of virtual repository of learning resources with a single-window search facility. There are more than 3 crore digital resources available through the NDL. The contents cover almost all major domains of education and all major levels of learners including life-long learners. More than 50 lakh students have

registered themselves in the NDL, with about 20 lakhs active users. The NDL is available through a mobile app too. It may be accessed on ndl.gov.in.

- **Spoken Tutorial:** They are 10-minute long, audio-video tutorial, on open source software, to improve employment potential of students. It is created for self learning, audio dubbed into all 22 languages and with the availability of online version. The languages are C, C++, Java, PHP, Python, PERL, Scilab, Open FOAM, Open Modelica, DWSIM, LibreO and many more. The Spoken Tutorial courses are effectively designed to train a novice user, without the support of a physical teacher.
- **Free and Open Source Software for Education (FOSSEE):** FOSSEE is a project promoting 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. About 2,000 college students and teachers have participated in this activity & close to 1,000 TBCs have been created in Scilab and made them available for free download.
- **Virtual Lab:** The Virtual Labs Project is to develop 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. There are about 225 such labs operational, with more than 1800 experiments and benefitted more than 15 lakhs students.
- **E-Yantra:** e-Yantra is a project for enabling 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. 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.

All the above schemes are not any state specific scheme, these are available to all across the country, including Karnataka.
