

## Online Courses

### 1. INTRODUCTION

Virtual Learning is a learning process with a combination of content that is both delivered digitally and through face-to-face learning. Virtual Learning contributes to the shifts from traditional face-to-face learning to web technology tools, which enhances collaborative learning and presents an entirely new learning platform for students. Virtual Learning has also been the principal form of distance education. Still, it is also changing the instructions on higher education as it is now becoming a global agent in higher education. Advancements in technology learning have contributed to the enhancements of generations of face-to-face learning and generations of distance education. When eLearning develops, it has begun to use different approaches to address diverse goals.

Coimbatore Institute of Management and Technology is an active local chapter. E-learning Initiatives (Digital Learning) encourage students and faculty members to enrol in any course of their interest and provide all the required support for successful completion. So far, 3500+ students and faculty members have completed several NPTEL courses. E-learning Initiatives (Digital Learning) help students identify mentors for the course, complete assignments on time, pay the course fee, etc.

In addition to NPTEL, Spoken Tutorial, Free MOOC Courses-Coursera, Udemy, Alison, and SWAYAM are offered to our students and faculty members through E-learning Initiatives (Digital Learning). The spoken Tutorial Model resource centre is well-equipped to aid faculty members and students complete various courses.

### 2. VIRTUAL LEARNING

There are specific goals when it comes to e-Learning, and some of these are to:

- Enhance the quality of learning and teaching
- Meet the learning style or needs of students
- Improve the efficiency and effectiveness
- Improve user accessibility and time flexibility to engage learners in the learning process

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- Provides access to more information and allows students to use their initiative to find it
- Students imbibe extra computer skills that may be helpful generally
- Students can study whenever and wherever they want
- The students benefit from person-to-person interaction as well as the new dimensions that the Internet can bring to their studies
- Digital information reduces strain on the library. Students no longer feel they have to fight over books

The following activities are conducted through the Center for Digital Learning:

1. NPTEL Online Courses
2. Spoken Tutorial Courses
3. Free MOOC Courses (Open2Study, Coursera, Udemy, British Council of India, etc.)
4. Professional Skill Development Programme (hostel Students)
5. Webinars
6. Value Virtual Lab
7. Online Faculty Development Programme
8. Learning Management System(Moodle, Edmodo and Canvas)

### 3. SWAYAM- NPTEL CERTIFICATIONS

#### SWAYAM

SWAYAM is a programme initiated by the Government of India and designed to achieve the three cardinal principles of Education Policy: access, equity and quality. This effort aims to take all the best teaching and learning resources, 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.

The courses hosted on SWAYAM are in 4 quadrants – (1) video lectures, (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 doubts. Steps have been taken to enrich

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the learning experience by using audio-video and multimedia and state-of-the-art pedagogy/technology. To ensure that the best quality content is produced and delivered, nine National Coordinators have been appointed. They are:

- AICTE (All India Council for Technical Education) for self-paced and international courses
- NPTEL (National Programme on Technology Enhanced Learning) for Engineering
- UGC (University Grants Commission) for non-technical post-graduation education
- CEC (Consortium for Educational Communication) for undergraduate education
- NCERT (National Council of Educational Research and Training) for school education
- NIOS (National Institute of Open Schooling) for school education
- IGNOU (Indira Gandhi National Open University) for out-of-school students
- IIMB (Indian Institute of Management, Bangalore) for management studies
- NITTTR (National Institute of Technical Teachers Training and Research) for Teacher

## TRAINING PROGRAMME

Courses delivered through SWAYAM are available free of cost to the learners. However, learners wanting a SWAYAM certificate should register for the final proctored exams that come at a fee and attend in person at designated centres on specified dates. Eligibility for the certificate will be announced on the course page, and learners will get certificates only if these criteria are matched. Universities/colleges approving credit transfers for these courses can use the marks/certificate obtained in these courses for the same.

### 4. NPTEL

The National Programme on Technology Enhanced Learning (NPTEL) was initiated by seven Indian Institutes of Technology (Bombay, Delhi, Kanpur, Kharagpur, Madras, Guwahati and Roorkee) along with the Indian Institute of Science, Bangalore in 2003. Five core disciplines were identified: civil engineering, computer science and engineering, electrical engineering, electronics and communication engineering and mechanical engineering and 235 courses in web/video format were developed in this phase.



## COIMBATORE INSTITUTE OF MANAGEMENT AND TECHNOLOGY

An Autonomous Institute approved by AICTE, affiliated to Bharathiar University & Re-accredited with 'B' Grade by NAAC (2<sup>nd</sup> Cycle)  
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NAAC  
3<sup>rd</sup> CYCLE

**Criterion II: - Teaching Learning and Evaluation**  
**Key Indicator – 2.2 Catering to Student Diversity**

**Criterion II**  
**Metric 2.2.1**

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The main goal of NPTEL Phase II (2009-14) goal was to build on the previous engineering and core science courses launched in NPTEL Phase I. An additional 600 web and video courses were created in all major branches of engineering, physical sciences at the undergraduate and postgraduate levels and management courses at the postgraduate level.

  
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Principal

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