

### 2.3.2 ICT.....

As explained in 2.3.1, Centurion is a working live model of NEP-2020. Immersive Experiential Pedagogy is its backbone integrated with digital technologies. This helps in exploring the Action-Reflection-Action to its core. Teachers are encouraged, trained and rewarded for making students go beyond the normal and explore learning from the world using ICT tools.

CUTM has developed a dynamic and state-of-the-art learning infrastructure so as to get the Educational Technology plugged into its core delivery. This is executed through our **Research Center for Edutech** which focusses on digitisation of curricula, **implementation of LMS** as a IT backbone, development of 3D immersive technologies for understanding difficult topics and students and faculty developing their own content and pedagogy. At the same time, students are encouraged to learn from global resources which include Swayam, Coursera, Udemy and many such platforms. This facility is available for students also in our integrated library management system (refer Criteria 4.2.1).

- **Digitalisation of Courseware:** All the 1100 odd courses taught at the university are digitally aligned with session plans, lesson plan, teaching aids and assessment. The teaching aids include free video content available on YouTube apart from the contents and lectures developed in-house. The whole curriculum and content is hosted at [www.courseware.cutm.ac.in](http://www.courseware.cutm.ac.in). The courseware is available as reference material for skills integrated higher education model (Centurion Model). The web site has 50+ industrial domains and 100+ skill courses to supplement the core courses. With this we had no disruption to our academic calendar during COVID pandemic. Students also take courses from Swayam, Udemy as well as Coursera platforms. Faculty members also submit courses to these platforms.
- **Immersive learning content :** The faculty and students have **developed 100+ difficult-to-understand topics into 3D immersive learning using various metaverse technologies**. Such assets are even marketed to others through the Center for Edutech.
- **The university uses a custom made ERP** for the entire learning management for all courses.
- The University also uses **paper less examination system** where the entire exam including written exams are digitalised using stylus and tab. More over the software is developed by in house faculty and is even marketed to other universities through the GT entities.
- The **Media Resource Center (MRC)** in every campus supports digitalisation of content including making learning videos as well as 3D assets. It has partnership with Adobe, Auto desk , Dassault 3D experience. The 3D immersion labs in all campuses support students. Faculty-developed class room videos for 50+ domain and skill courses, which are hosted on-line by MRC.
- The university has its own payment app, Insta Money, integrated for fee collection
- Entire student feedback and interaction happens on the custom made digital platform of CUTM.
- The university also uses simulation labs wherever possible. All such simulation labs are hosted in **AWS/Pi Data Center** and **Centurion@Cloud** which is hosted in one of the campuses.
- **Digital Centurion** is normal at Centurion and so it is in essence the enabler of learning, digitally.