

Information for UGC

The Centre for Education Technology started in the year 2016 with an aim to conceptualize the execution and evaluation of the education process, i.e. learning and teaching with application of modern educational teaching techniques. The application of educational technology requires knowledge from several areas: pedagogy, psychology, didactics, computer sciences, informatics etc. So the Centre provides a roadmap to reach the required areas by using different modern teaching pedagogies than the traditional ones. The centre aims in:

- Creating and supporting effective digital-age learning environments to maximize the learning of all students.
- Assisting teachers in using technology effectively for assessing student learning, differentiating instruction, and providing rigorous, relevant, and engaging learning experiences for all students.
- Demonstrating adult learning and leadership and continuously deepening their knowledge and expertise through reflective evaluation.
- Participating in the development and implementation of shared vision for the comprehensive integration of technology to promote excellence.
- Making lessons more engaging, interactive, collaborative, and designed for multiple intelligences.

In order to facilitate innovative and effective methods of teaching and learning the Centre has conducted many Workshops, Guest Lectures on various topics like:

- Think-Pair-Share
- Flipped Classroom
- Understanding The Global Education Framework And Technology In Education- Indian Perspective
- POGIL- Process Oriented Guided Inquiry Learning
- Spoken Tutorials
- MOOCs
- Plickers etc.

A session on Bloom's Taxonomy & Think-Pair-Share was conducted on 21st Oct, 2016. A total no. of 32 faculty attended both the sessions. The idea behind the sessions was to:

- Make the teachers understand to take decisions about the classification of content and map content to tasks that students need to perform.
- Guide teachers to develop higher levels of thinking process for critical thinking or creative thinking.
- Develop questions or projects that require the development of thinking and reflection from the knowledge level to the evaluation level.

- Design curriculum as well as classroom assignment using Bloom's taxonomy to advance the learning process from recalling learning materials to higher level of thinking.
- To design tasks so that students need to think individually about a topic or answer to a question.
- Share ideas with classmates and build oral communication skills.
- Focus attention and engage students in comprehending the material.

A session on Flipped Classroom was conducted on 16th November, 2016. A total no. of 30 faculty attended the sessions. The idea behind the session was to:

- Use flipped classroom methods to promote student-centred environment.
- Stimulate student collaboration and concept mastery exercises.
- Engage students through Video lectures as they are short.
- Access students to a variety of lessons and contents and allows real differentiation.

A session on Understanding the Global Education Framework and Technology in Education-Indian Perspective was on 26th November, 2016. A total no. of 50 faculty attended the sessions. The aim of the session was to:

- The guest lecture has enlightened the faculty on the importance of coming to a conclusion that the models developed elsewhere in the world may not be totally suitable for the Indian system of Education.
- There is a need to create a system for Indian learners based on ancient wisdom and models so as to cater to the needs of Indian economy and curriculum.

A session on POGIL was conducted on 09th December, 2016. A total no. of 60 faculty attended the sessions. The objective of the session was to:

- Enlighten the faculty on the importance of implementing POGIL activities in a classroom for teaching different topics so that the students learn by doing and the class shifts from teacher-centered to student-centered.
- Promote interdependence and involvement from everyone and the students work well for guided-inquiry and problem-solving activities.
- Teach practical skills effectively through a hands-on session with the students where they involve, indulge and evolve.
- Support in engaging students more in their own learning and make the material more interesting.

A Guest Lecture on Spoken Tutorials & MOOCs was conducted on 27th March, 2107. A total no. of 35 faculty attended the Lecture. The Session started by the Inauguration of '**Nodal Resource Center for Spoken Tutorials**' by Ms. Iyer. Ms. Shyama Iyer, National Coordinator, Spoken Tutorials delivered her talk on Spoken Tutorials and the Afternoon session was followed by a talk on MOOCs by Dr. G.R.K. Murthy, Principal Scientist, NAARM.

The aim of the Lecture on Spoken Tutorials is to enlighten the participants on:

- The Spoken Tutorial Project which is about teaching and learning a particular FOSS (Free and Open Source Software) like Linux, Scilab, LaTeX, PHP & MySQL, Java, C/C++, LibreOffice etc.
- To highlight that this form of distance education method is highly conducive to self-learning.
- Any student or faculty can master the FOSS and also can get certificates (based on clearing an assessment test)
- It is an Audio-video tool that teaches open source software.

The session on MOOCs highlighted on:

- The Massive Open Online Courses (MOOCs) that have offered countless online learners the opportunity to learn new skills and expand their knowledge base for quite some time.
- MOOCs offered by Coursera, EdX, and other platforms initially heralded as a revolution in higher education access, expectations have been tempered as research revealed that only a small percentage of these millions were completing the courses but later it seemed to be serving the most.
- The courses offered by MOOCs are reaching large numbers of people, and disadvantaged learners are more likely to report tangible benefits.

A session on Plickers was conducted on 05th May, 2017. The faculty of H&S attended the session. The objective of the session was to:

- Recognize Plickers as a real-time formative assessment tool that teachers can use to enhance assessment of student learning in physical education settings.
- Create Plickers account and be able to navigate the basic features of the app and website.
- Discover how to use Plickers to increase student achievement, improve classroom management, and ensure differentiation in the classroom.
- Timesaving tool that provides teachers with instant formative or summative assessment in an objective fashion.

Achievements:

- Around 48 faculty members attended workshop on “Use of ICT in Education for Online and Blended Learning” conducted by IIT Bombay out of which 14 faculty members were awarded top performers & 12 faculty members were awarded top performers with cash prize.

These sessions helped teachers design, develop, and evaluate authentic learning experiences and assessments incorporating contemporary tools and resources to maximize content, learning in context and to develop the knowledge, skills, and attitudes. The centre for Education Technology intends to develop a technology-enriched learning environment that enables the students to pursue their individual curiosities and become active participants in setting their own educational goals, managing their own learning, and assessing their own

progress. It proposes to design or adapt relevant learning experiences that incorporate digital tools and resources to promote student learning and creativity and apply modern educational teaching techniques. The centre is recognised as '*Nodal Resource Centre for Spoken Tutorials*'.
