DEPARTMENT OF HUMANITIES & SCIENCES

Information Brochure
CENTRE FOR EDUCATION TECHNOLOGY

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TAMASOMA JYOTHIRGAMAYA

VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY
A College with potential for Excellence, UGC Autonomous, Accredited 'A' grade by NAAC, Accredited by NBA

Tell me and I forget. Teach me and I remember. Involve me and I learn.

Benjamin Franklin

Technology can become the "wings" that will allow the educational world to fly farther and faster than ever before—if we will allow it.

-Jenny Arledge

Education is not the learning of facts. Its rather the training of the mind to think.

– Albert Einstein

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About Us

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.

We are currently contributing into the e-learning domain and are at the stage of developing comprehensive training and consultancy packages to enable faculty to develop high quality instruction. 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
- Open Education Resources
- Spoken Tutorials
- MOOCs
- Plickers
- Instructional Design & Delivery Systems etc.

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VISION:

- To structure the nature of teaching and personalize learning plans with education technology.

MISSION:

- To develop a global online community to establish a supportive peer network, showcase development initiatives, foster ubiquitous technologies to facilitate further research into various technologies.

OBJECTIVES:

- Empower educational systems through sharing our knowledge and expertise to create the learning environments of the future.

- Harmonize pedagogical needs with the evolution of new technology.

- Use OER's for enhancement of regular course content.

- Support for a learner-centred, self-directed, peer-to-peer and social/informal learning approaches.

- Use MOODLE -Modular Object-Oriented Dynamic Learning Environment - open source platform to develop and manage courses online.

- Focus attention and engage students in comprehending the material.

- Combine face-to-face instruction with computer-mediated instruction, blended-learning, and increase the options for better quality and quantity of human interaction in a learning environment

- Provide 'real-life' learning experiences through OER that link to employer or professional sector activities

- Guide teachers to develop higher levels of thinking process for critical thinking or creative thinking

- Focus attention and engage students in comprehending the material

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ACTIVITIES OF CENTER FOR EDUCATION TECHNOLOGY
Academic Year 2016-17

Sl. No.	Name of the Session/Workshop	Resource Person	Dates	No. of Participants
1.	Bloom's Taxonomy & Think Pair Share	Ms. Prativa Rani Saha & Ms. S. Kanchana/ Assistant Professors, H&S	21st Oct, 2016	32 faculty
2.	Flipped Classroom	Dr. S. Nagini/Associate Professor, CSE	16th Nov, 2016.	30 faculty
3.	Understanding the Global Education Framework and Technology in Education- Indian Perspective'	Dr. Mouttoucoumaran Viramouttou, Education Counsellor	26th Nov, 2016	50 faculty
4.	POGIL	Dr. Cliff Kussumaul, Associate Professor of Computer Science, Muhlenberg College	09th Dec, 2016	60 faculty
5.	Open Education Resources	Dr. Indira Koneru, Faculty Member, E-Learning Department, IBS, ICFAI Group	19th Jan, 2107	30 faculty
6.	Spoken Tutorials	Ms. Shyama Iyer, National Coordinator, Spoken Tutorials	27th March, 2107	35 faculty
7.	MOOCs	Dr. G.R.K. Murhty, Principal Scientist, NAARM	27th March, 2107	35 faculty
8.	Plickers	Dr. T. Jayshree, Prof & HOD – H&S & Dr. Suchi Tiwari, Assistant Professors/ES	05th May, 2017	H&S faculty
9.	Exploring Moodle Functionality for Blended Learning	Dr. Indira Koneru, Faculty Member, eLearning, IBS, ICFAI Group	26th & 27th May, 2017	30 faculty
10.	Instructional Design & Delivery Systems	Dr. E.S.M. Suresh, Course Coordinator Dr. G. Janardhanan,	11th to 16th December,	42 faculty

		NITTTR, Chennai Dr. V. Uma Shanakar Sahu Head i/c Extension Centre, Hyderabad	2017	
11.	Four Week **FDP101x Foundation Program** in ICT	IIT BOMBAY	27th March to 15th April	Faculty Registered
12.	Career Vision Session	Prof. Kinshuk, Dean & Mr. Peter Vermeulen, Director of International Recruitment, University of North Texas.	--	Students of CSE
13.	Pedagogy for Online and Blended Teaching-Learning Process	IIT BOMBAY	29th March to 17th April	Faculty Registered

Dr. T. Jayashree, Head of the Department addressing the audience at the Inaugural Session of Blooms Taxonomy & Think Pair & Share.

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Memorandum of Understanding

VNR Vignana Jyothi Institute of Engineering and Technology, has collaboration with IIT Bombay Spoken Tutorial Program. The IIT Spoken Tutorial Program has recognised VNRVJIET as ***SPOKEN TUTORIAL*** IIT Bombay's ***Nodal Resource Centre NRC) for Telangana Region.***

Spoken Tutorial is a video session explaining the subject with a screen cast and narration. It can be used for various topics and domains ranging from purely technical to mundane but common issues. For instance, one can explain how to register an account for online train ticket booking.

Spoken Tutorial has the potential to make India, an IT literate nation. "Spoken Tutorial is really beneficial for learners as it is Free and Open Source Software (FOSS).The tutorials are dubbed into various Indian languages.

Spoken Tutorial is part of Talk to a Teacher project of National Mission on Education through ICT under MHRD.

Key benefits

- Excellent self-learning methodology
- Scale up of workshops is possible
- Can learn in a language of one's choice
- Can learn at a convenient pace
- Can learn at a convenient time

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Achievements

- The centre is recognised as '***Nodal Resource Centre for Spoken Tutorials'***.

- 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 Conferred with **"Award of Excellence"** sponsored by SAP India Pvt. Ltd. and a cash prize of Rs. 5000/-.

- These faculty worked as ***Associate faculty*** for the AICTE sponsored FDP program on ICT Methods being conducted by IITB, as part of NMEICT Initiative for faculty across the Nation.

- The faculty members are now serving as mentors for FDP301x Mentoring Educators in Educational Technology.

- The Centre conducted various Workshops, Guest Lectures & FDPS on different topics related to ICT and other teaching learning methods.

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REPORT ON A SESSION ON '*BLOOM'S TAXONOMY & THINK PAIR SHARE*'
CONDUCTED ON 21st OCTOBER, 2010.

A session on Bloom's Taxonomy & Think-Pair-Share was conducted by the Center for Education Technology, Department of Humanities & Sciences, for the newly joined faculty on 21st Oct, 2016. A total no. of 32 faculty attended both the sessions. The idea behind the sessions is 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.

Ms. Prativa Rani Saha & Ms. S. Kanchana, Assistant Professors/English, H&S were the resource persons. Their presentation was really good and the participants appreciated it a lot. They delivered the concept of importance of Bloom's Taxonomy & how it can be used while designing the question paper keeping the Lower & Higher Order Thinking Skills in mind. The sessions also focused on the importance of Active teaching pedagogy like Think-Pair-Share in order to design an activity, to discuss and explain a topic clearly through problem solving, decision making and analytical skills and by involving in thinking individually, discussing with peers and the class which are the important methods in the present time in teaching and learning process. The session was followed by a Hands-on session on 28th October, 2016 where the participants designed the activities and applied them related to their domain in designing the question paper as well as in designing a think-pair-share activity for the class.

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The topics were handy to the all participants and they enjoyed the sessions. The participants expressed their happiness and satisfaction regarding the sessions and informed that they expect many such sessions in the future too.

We thank the Management, Principal, Our Head of the Department, Dr. T. Jayashree and Staff for their concern and support.

Participants at the workshop.

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REPORT ON A SESSION ON *'FLIPPED CLASSROOM'* CONDUCTED ON 16th NOVEMBER, 2010.

A session on Flipped Classroom was conducted by the Center for Education Technology, Department of Humanities & Sciences, for the newly joined faculty on 16th November, 2016. A total no. of 30 faculty attended the sessions. The idea behind the session is to

- Use flipped classroom methods to promote student-centered 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.
- Availability of teachers for more one-on-one interaction with students in a flipped classroom.
- Provide flexibility – everyone works at their own pace.
- Students take on the responsibility for their learning.

Ms. S. Nagini, Associate Professor, CSE was the resource person. Her presentation was very good and impressive. The participants appreciated her presentation. She delivered the importance of Flipped Classroom, how can the activities be designed, how can they be used in and outside a classroom, its usefulness and success rate in learning certain topics. The session was followed by a Hands-on session where the participants designed a flipped classroom activity related to their domain.

The topics were handy to the all participants and they enjoyed the sessions. The participants expressed their happiness and satisfaction regarding the sessions.

We thank the Management, Principal, our Head of the Department, Dr. T. Jayshree and Staff for their concern and support.

Photos of Flipped Classroom Session

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REPORT ON A GUEST LECTURE ON *'Understanding the Global Education Framework and Technology in Education- Indian Perspective'* CONDUCTED ON 26th NOVEMBER, 2016.

A session on Understanding the Global Education Framework and Technology in Education- Indian Perspective was conducted by the Center for Education Technology, Department of Humanities & Sciences, for faculty on 26th November, 2016. A total no. of 50 faculty attended the sessions. The idea behind the session is 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.
- The speaker also enunciated the need to overcome internal flaws of our existing systems and models to compete with the global counterparts.

Dr. Mouttoucoumaran Viramouttou, Education Counsellor, was the resource person. His Lecture was very good and impressive. The session kept its momentum with his figures and facts. He focused on the essentiality on why to change the system and adopt certain ancient pedagogies.

He delivered the importance of Global Education perspective and how it changes over the period.

The participants expressed their views on the successful organization of the lecture and were happy to take in some inputs back home.

We thank the Management, Principal, our Head of the Department, Dr. T. Jayashree and Staff for their concern and support.

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REPORT ON A SESSION ON *'POGIL'* CONDUCTED ON 09th DECEMBER, 2016.

A session on POGIL was conducted by the Center for Education Technology, Department of Humanities & Sciences, for faculty on 09th December, 2016. A total no. of 60 faculty attended the sessions. The idea behind the session is to

- The guest lecture has enlightened 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.
- The tasks promote interdependence and involvement from everyone and the students work well for guided-inquiry and problem-solving activities.
- Practical skills can be taught more effectively through a hands-on session of the students where they involve, indulge and evolve.
- POGIL also supports in engaging students more in their own learning and make the material more interesting.
- It is designed for use with self-managed teams that employ the instructor as a facilitator of learning rather than as a source of information.
- Guide students through an exploration to construct understanding and use discipline content to facilitate the development of higher order thinking skills.

Dr. Cliff Kussumaul, Associate Professor of Computer Science, Muhlenberg College was the resource person. His session was quite interactive and the faculty were involved in designing activities. He focused on the essentiality on adopting new teaching methods and why facilitators must expend time and effort developing activities that mirror the learning cycle: exploration, concept formation, and application. The session also highlighted on changing the way we present information, developing models for student inquiry and writing questions that build on students' prior knowledge and then lead students to make inferences in the construction of their own mental representations of principles and concepts.

The participants expressed their views on the successful organization of the session and were happy to take in some inputs back home.

We thank the Management, Principal, Ms. Kode Sandhya- Director, our Head of the Department, Dr. T. Jayashree and Staff for their concern and support.

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POGIL Session Photos

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REPORT ON ONE-DAY WORKSHOP ON '*OPEN EDUCATION RESOURCES'*
CONDUCTED ON 19th JANUARY, 2017*.*

A one-day workshop on Open Education Resources was conducted by the Center for Education Technology, Department of Humanities & Sciences, for the faculty on 19th Jan, 2107. A total no. of 30 faculty attended the workshop. The workshop was followed by a hands-on session from to 2:00 pm to 5:00 pm. The idea behind the workshop and the hands-on session is to:

- Freedom of access and enhanced opportunities for learning as students can access OERs at any time, and they can access the material repeatedly.
- Use OER's for enhancement of regular course content. For example, multimedia material such as videos can accompany text and presenting information in multiple formats may help students to more easily learn the material being taught.
- Disseminate information quickly and apply knowledge in a wider context.
- Support for learner-centred, self-directed, peer-to-peer and social/informal learning approaches.
- Enhances a university's reputation as well as that of the teacher or researcher.
- Provides education for all and maximizes the use and increases availability of educational materials.
- Provides 'real-life' learning experiences through OER that link to employer or professional sector activities, and so forth.

Dr. Indira Koneru, Faculty Member, E-Learning Department, IBS, ICFAI Group, Hyd was the resource person. Her presentation was lively and the participants appreciated it. She delivered the importance of Using Open Education Resources and how it benefits the society at large. She also focused that OER courses make it easier for teachers to create their online course and anywhere, and everywhere in the world, teachers can reuse others' course material, adapt it to their own audience and mix different open resources. Indeed, "86.3% of educators adapt OER to suit their needs". Dr. Koneru highlighted on using OER's extensively as they are a great way to create outstanding courses collaboratively. The session was followed by a hands-on session by Dr. T. Sushumna Rao, who enlightened the participants on designing their activities and record their presentations using Screen-O-Matic and uploading it in Youtube. She also emphasized that OER's contribute to the spreading of ideas and inspiration all around the world and keep the course content up-to-date.
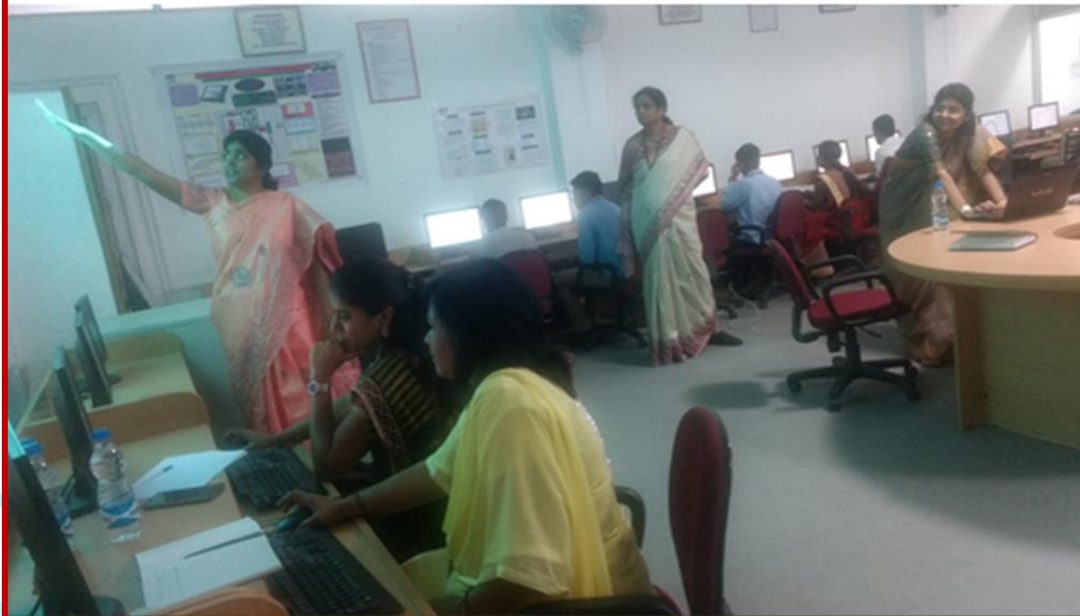
The sessions were very interesting and the participants enjoyed the sessions. They expressed their happiness and satisfaction regarding the workshop and informed that they expect many such sessions in the future too.

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We thank the Management, Principal, Our Head of the Department, Dr. T. Jayashree and Staff for their concern and support.

Dr. Indira Koneru enlightening the participants @ OER Workshop

Dr. Sushumna Rao training the participants @ OER workshop

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REPORT ON GUEST LECTURE ON '*SPOKEN TUTORIALS' & 'MOOCs'* CONDUCTED ON 27th MARCH, 2017.

To mark the Open Education Awareness Week, a Guest Lecture on Spoken Tutorials & MOOCs was conducted by the Center for Education Technology, Department of Humanities & Sciences, for the faculty 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. Murhty, Principal Scientist, NAARM. The forenoon session was from 10.00 am to 12.30 pm and the afternoon session was from 2.30 pm to 4:30 pm.

The idea behind the Guest 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.

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The Resource Persons Ms. Shyama Iyer, National Coordinator, Spoken Tutorials and Dr. G.R.K. Murhty, Principal Scientist, NAARM, enlightened the participants on Spoken Tutorials initiative to transform Indian education and its resounding success in training students in different aspects, such as programming languages, simulation and circuit design platforms and office productive tools, using free open source softwares (FOSS) and MOOCs to make an individual as an ardent, lifelong learner by bringing people together from all over the world and encourage engagement and also to introduce it at our Institute and offer courses for our students, staff, alumni and other colleges. The Institute being a Nodal Resource Centre for Spoken Tutorials should initiate these courses and Ms. Shyama Iyer offered her support to start the program.

The sessions were very interesting and the participants enjoyed the sessions. They expressed their happiness and satisfaction regarding the Lecture and informed that they expect many such sessions in the future too. The faculty showed their interest in getting involved in such sessions and to render their support to start many such programs for our students. The staff also conveyed that there seems great potential in Spoken Tutorials courses to act as a game changer in any student's career, and this can be better unearthed provided due care is taken in awarding Spoken Tutorial certificates during the well appreciated process of educating masses in IT skills.

We thank the Management, Principal-Dr. C. D. Naidu, our Head of the Department-Dr. T. Jayashree and Staff for their concern and support.

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REPORT ON A SESSION ON '*PLICKERS'* CONDUCTED ON 05th MAY, 2017.

A session on Plickers was conducted by the Center for Education Technology, Department of Humanities & Sciences, on 05th May, 2017. The H&S faculty attended the session. The idea behind the session is 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.

Dr. T. Jayshree, Prof & HOD – H&S & Dr. Suchi Tiwari, Assistant Professors/ES were the resource persons. They explained the method of using Plickers in classroom. They highlighted how teachers can set up their class list and create a quiz using the Plickers website.

The session was handy to the all participants showed interest in using it in their classrooms.

We thank the Management, Principal, Our Head of the Department, Dr. T. Jayashree and Staff for their concern and support.

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REPORT ON ONE-DAY WORKSHOP ON '*EXPLORING MOODLE FUNCTIONALITY FOR BLENDED LEARNING'* CONDUCTED ON 26th & 27th May, 2017.

A two-day workshop on **'Exploring Moodle Functionality for Blended Learning'** was conducted by the Center for Education Technology, Department of Humanities & Sciences, for the faculty on 26th & 27th May, 2107. A total no. of 30 faculty attended the workshop. The workshop was followed by a hands-on session on both the days. The idea behind the workshop is to:

- Know the advantages of LMS (Learning Management Systems) such as Moodle, to support the presential lectures in higher education.
- Analyse its implications for student support and online interaction.
- Understand course page & editing controls, change the course format and layout, start date, topics number, hiding gradebook and add course title, summary & handout/syllabus
- Add Resources, File & Folder, URL (Web resources) and Page with content in multiple media.
- Create question bank categories and import Questions to Question Bank - Aiken Format (MCQ)
- To give Grade Settings (Editing letter grades), Add offline grade items, Export and Import Grades and have course backup & restore
- Communicate with students, use announcements forum, send Bulk/Individual messaging (mobile app) and Add offline events to calendar.
- Combine face-to-face instruction with computer-mediated instruction, blended-learning, and increase the options for better quality and quantity of human interaction in a learning environment.

Dr. Indira Koneru, Faculty Member, E-Learning Department, IBS, ICFAI Group, Hyd was the resource person. Her presentation was lively and the participants appreciated it. She delivered the importance of providing interesting alternatives to promote a more significant learning and contribute to the development of flexible and customized models of an evaluation which we want to be more efficient. She also focused that through Moodle we can centralize and simplify administration and management of teaching and learning through e-learning. This system covers the entire process of distance learning, possessing interface and student teachers, tutors, to administrators and the administrative part. It is a Virtual Learning Environment (VLE) and a free web application that educators can use to create effective online learning sites.

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The sessions were very interesting and the participants enjoyed the sessions. They expressed their happiness and satisfaction regarding the workshop and informed that they expect many such sessions in the future too.

We thank the Management, Principal, our Head of the Department, Dr. T. Jayashree and Staff for their concern and support.
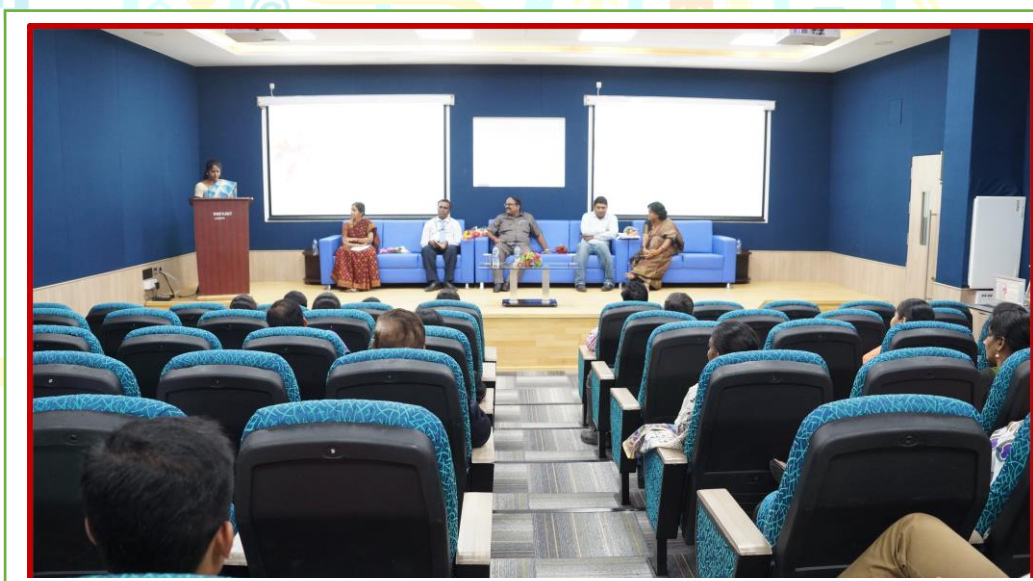
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REPORT ON *FDP ON 'INSTRUCTIONAL DESIGN AND DELIVERY SYSTEMS'* conducted during 11th -16th December, 2017.

Centre for Education technology under the aegis of Dept. of Humanities and sciences in Association with NITTTR, Chennai organised a one week FDP on **INSTRUCTIONAL DESIGN AND DELIVERY SYSTEMS** from 11th December to 16th December 2017 at B-Block Seminar Hall, VNRVJIET. A total no. of 42 faculty attended the FDP. The idea behind the FDP is to train the faculty in the following areas:

- To Comprehend the Principles of Learning
- To Develop Course Outcome for an Identified Topic
- To Prepare Lesson Plan for Teaching
- To explain Outcome Based Education and Accreditation
- To Use the Various Tools of Online Courseware Development
- To Understand the Basics of Evaluation
- To Develop different types of Questions in the Examination
- To Appreciate usefulness of Micro-teaching for Enriching Teaching skills

Dr. E.S.M. Suresh, Course Coordinator, Dr. G. Janardhanan, NITTTR, Chennai, Dr. V. Uma Shanakar Sahu Head i/c Extension Centre, Hyderabad conducted the FDP. This FDP has provided a hands-on training to the faculty in designing the course and the methodologies to be adapted for delivering the content in an effective way.
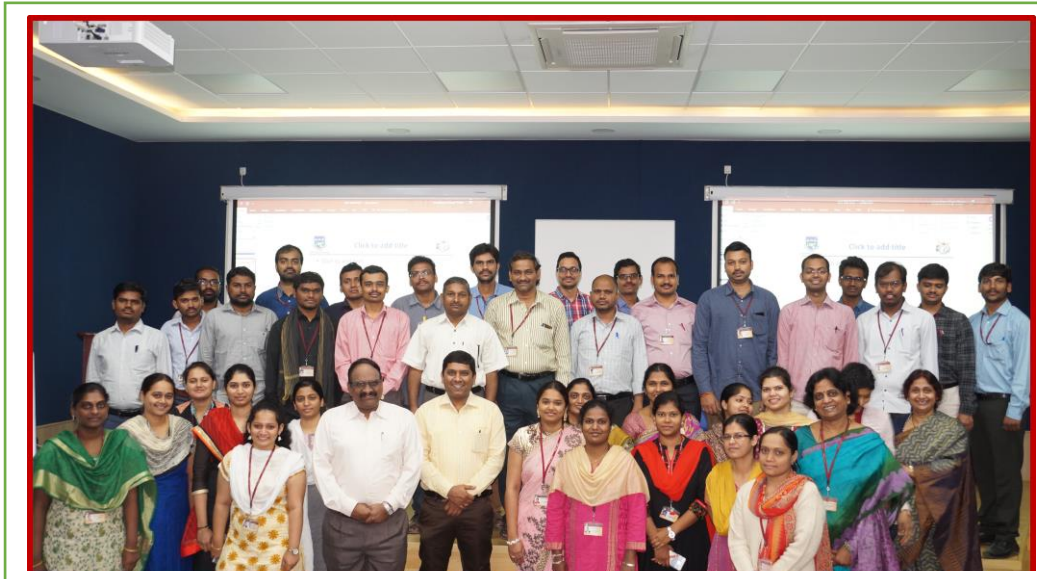
The topics covered in the FDP are: Planning for Teaching, Development of Lesson Plan, Instructional Methods, Instructional Methods, Outcome Based Education and Accreditation, Developing PO and PEO, Technology Enabled Learning, Online Courseware Development, Basic Concepts of Evaluation, Development of Test Items, Construction of Achievement Tests, Question Paper Analysis.

The participants designed the activities and applied them related to their domain in designing the question paper as well as in designing. The topics were handy to the all participants and they enjoyed the sessions. The participants expressed their happiness and satisfaction regarding the sessions.

Microteaching session has put the participant teachers under a microscope so as to give a constructive feedback about the teaching methodology. The participants with the motivation and suggestions given by the peers understood the methods to eliminate some of the complexities of learning to teach in the classroom situation such as the pressure of length of the lecture, the scope and content of the matter to be conveyed, and the need to face large numbers of students and the adaptation of Active Teaching-Learning methodologies.

We thank the Management, Principal, Dr. E.S.M. Suresh, Course Coordinator, Dr. G. Janardhanan, NITTTR, Chennai, Dr. V. Uma Shanakar Sahu Head i/c Extension Centre, Hyderabad ,Our Head of the Department, Dr. T. Jayashree and Staff for their motivation and support.

PHOTOS