



# VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

(Sponsored by Lavu Educational Society)

[Affiliated to JNTUH, Hyderabad & Approved by AICTE, New Delhi]

Kondapur (V), Ghatkesar (M), Medchal - Malkajgiri (D) - 501 301. Phone: 96529 10002/3



## Department of Computer Science and Engineering

### Innovative Methods in Teaching and Learning

S.NO	Description
1	Moodle
2	Google Class Room
3	Blended Teaching
4	ICT Based Teaching Facilities
5	Webinars & Work Shops
6	Group Discussion
7	Virtual Labs
8	Experimental Learning
9	Flipped Class Room
10	Internships
12	FDP's of Faculty

## Moodle

The screenshot shows a Moodle course page for 'OPERATING SYSTEMS'. The page title is 'OPERATING SYSTEMS' and the breadcrumb trail is 'Home / My courses / OPERATING SYSTEMS'. A 'Turn editing on' button is visible in the top right corner. The left sidebar contains a 'Navigation' menu with options: Home, Dashboard, Site pages, My courses, OPERATING SYSTEMS (expanded), Participants, Badges, Competencies, Grades, General, UNIT-I, UNIT-II, and UNIT-III. The main content area displays 'UNIT-I' and 'UNIT-II' sections, each with a 'Mark as done' button. The browser address bar shows '43.225.25.132/moodle/course/view.php?id=16'. The Windows taskbar at the bottom shows the date as 31-05-2022 and the time as 15:12.

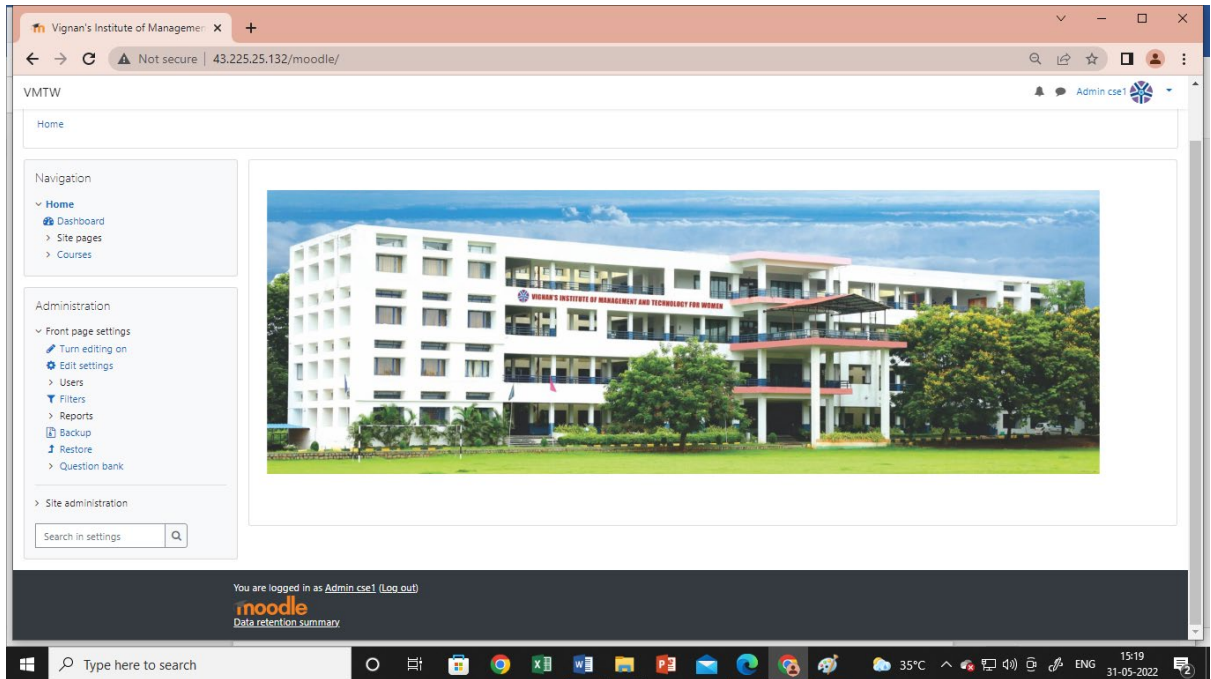


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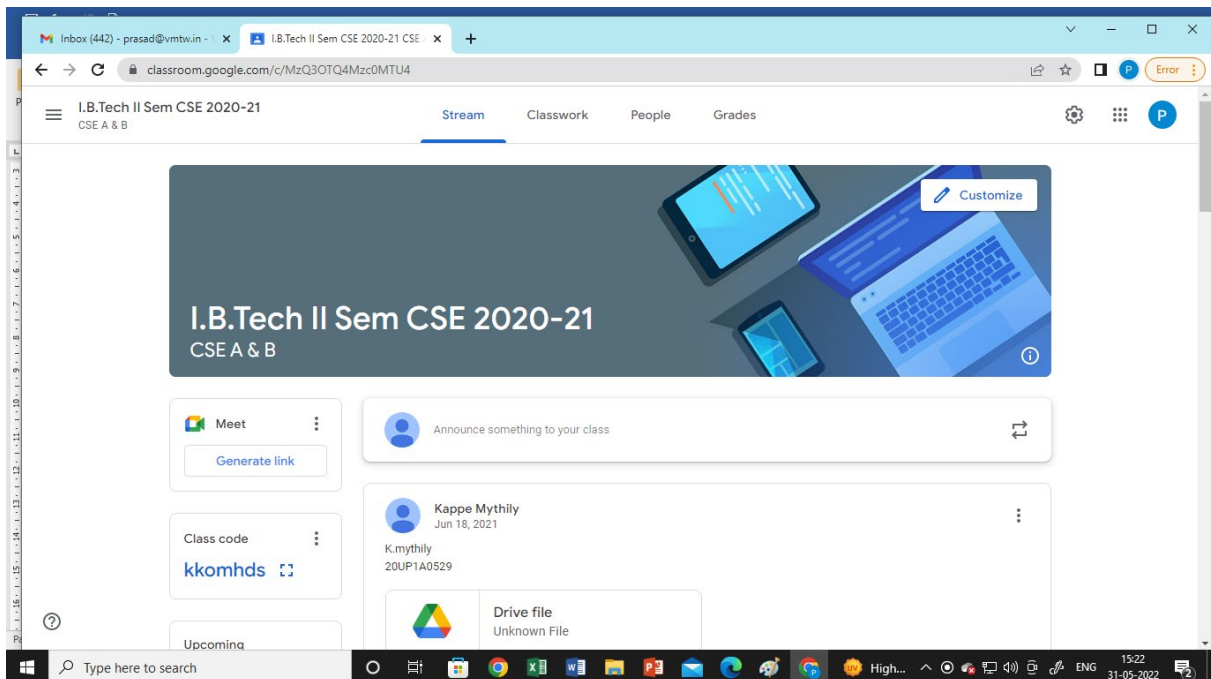
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## Google Class Room



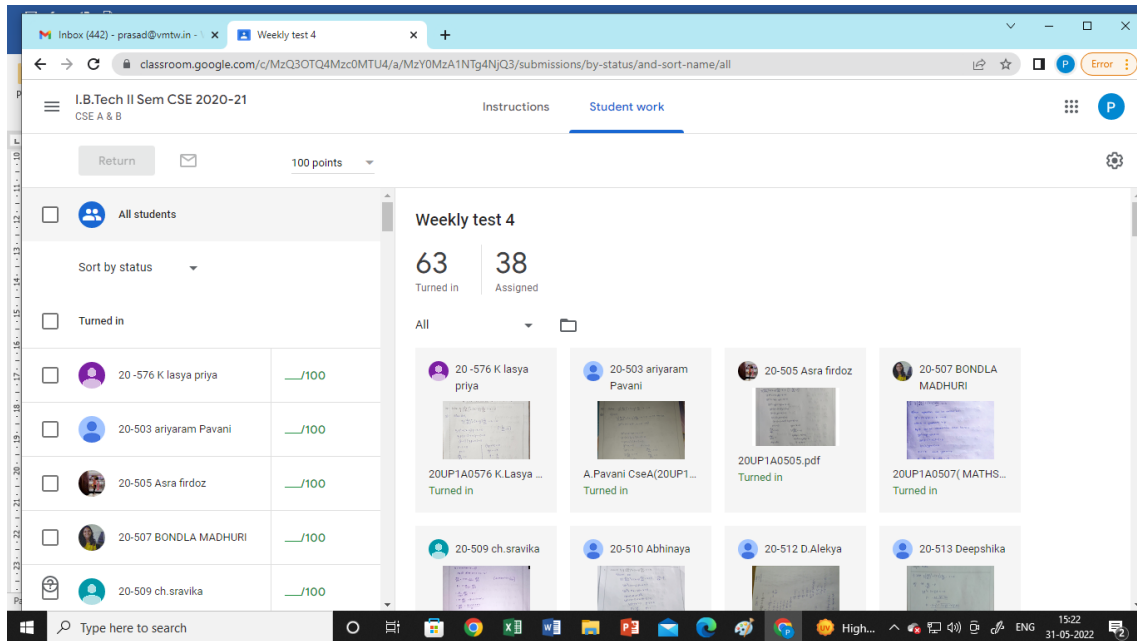


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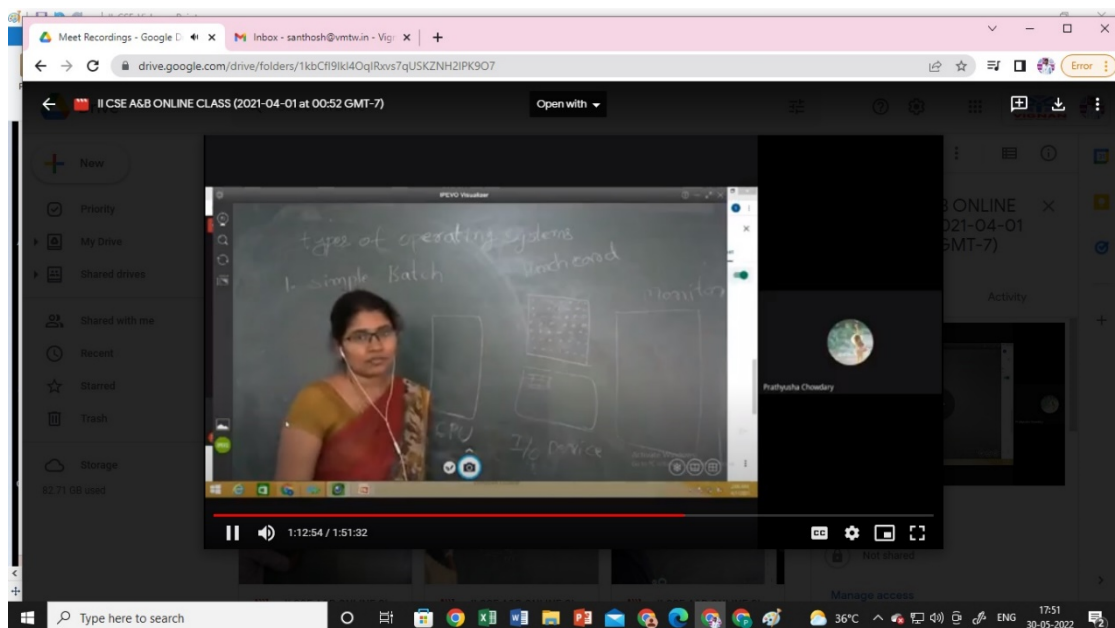
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## Blended Teaching

Using Blended learning concept students were instructed by combining digital learning tools with more traditional classroom face to face teaching. **Mrs K Prathyusha**, **Assistant Professor**, in Department of Computer Science and Engineering, taking on-line class for the subject Operating Systems through ICT TOOL. (Using Google Meet, PPT).



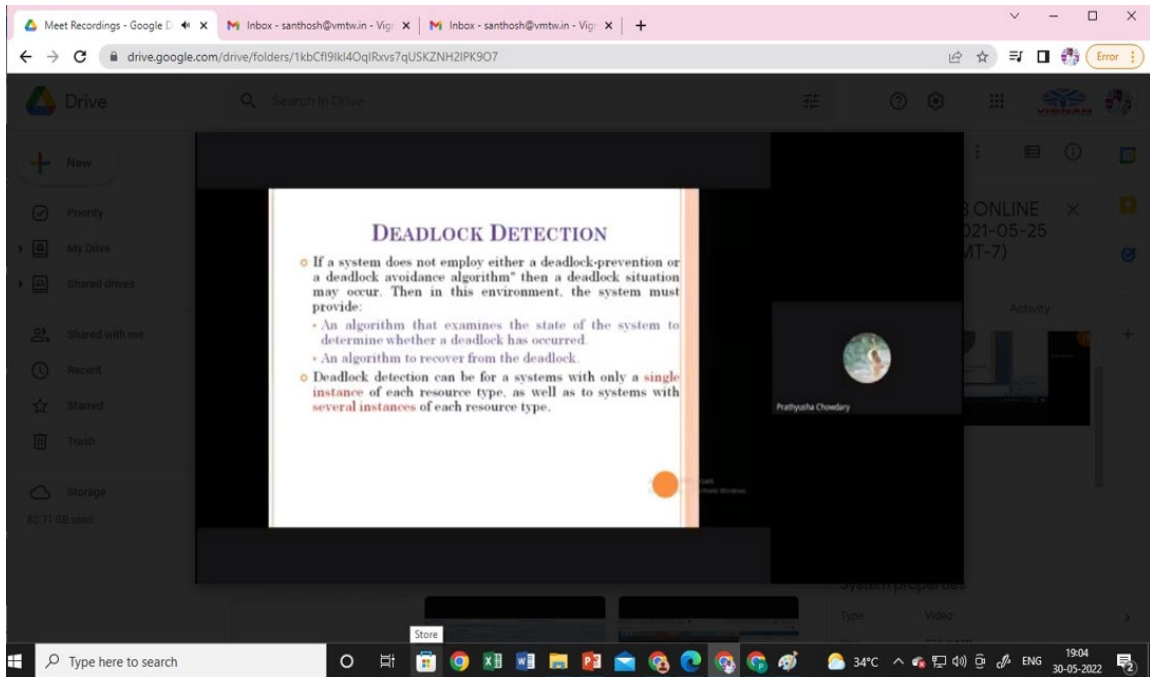


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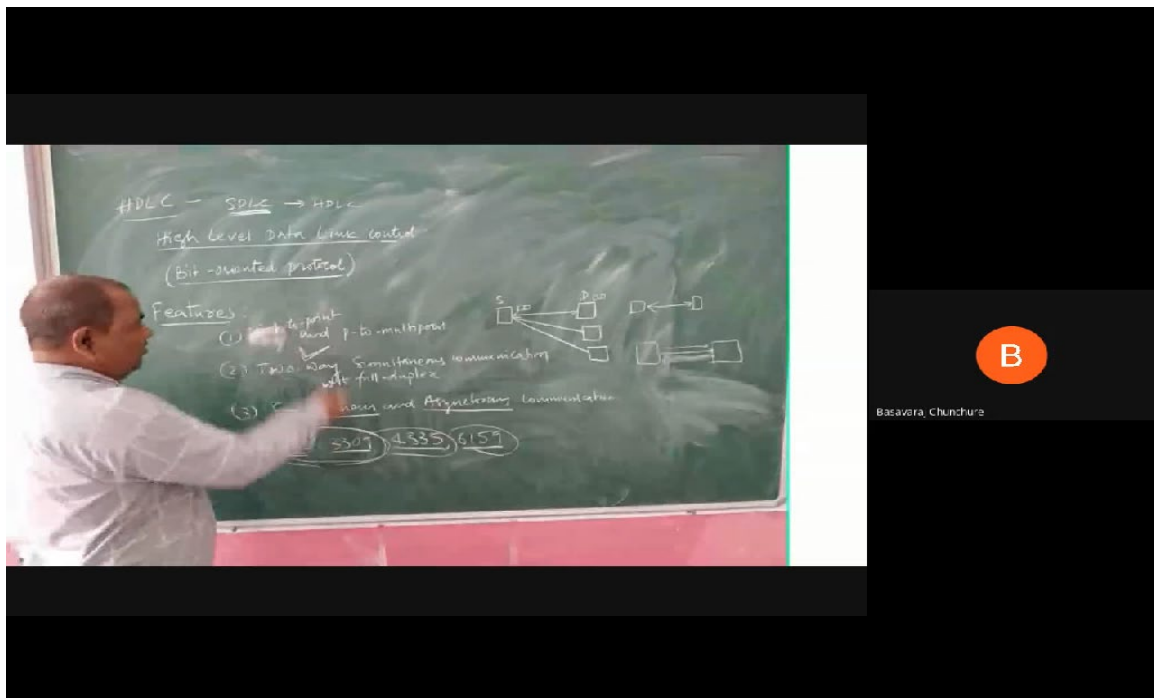
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DrChBasavaRaj , Associate Professor, Department of Computer Science &Engineering, Explaining the concepts Data Link Layer Protocol for the students of III year B Tech .





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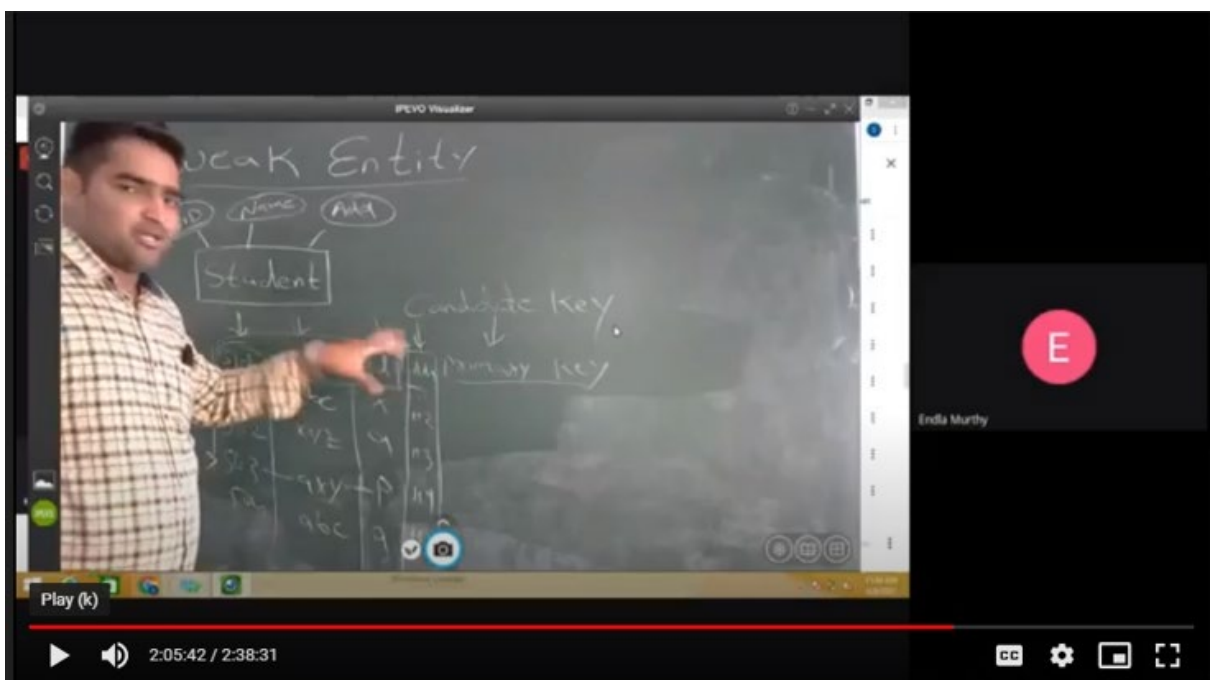
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**Mr. M Vishnu Vardhan Rao**, Assistant Professor of CSE Department is explaining the concepts of Discrete Mathematics “through Google Classroom”.



**Mr. Murthy**, Assistant Professor of CSE Department is explaining the concepts of Data Base Management Systems “through Google Classroom”.





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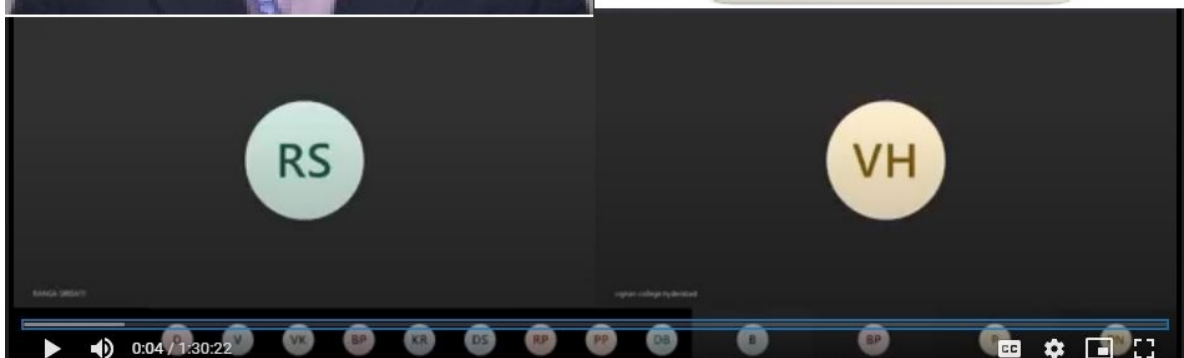
## ICT Based Teaching Facilities

All Class Rooms are Equipped with new age smart boards, LCD Projector along with the traditional black board, to make the process of learning much more interesting.



## Webinars & Work Shops

Webinars conducted to the students on upcoming technologies which helped them to improve their knowledge. Dr P Piyush Kumar Pareek, Professor Department of CSE, East West Group of Institutions, Bangalore, took Webinar on "Data Analytics" for the Students of II, III, IV year B Tech.





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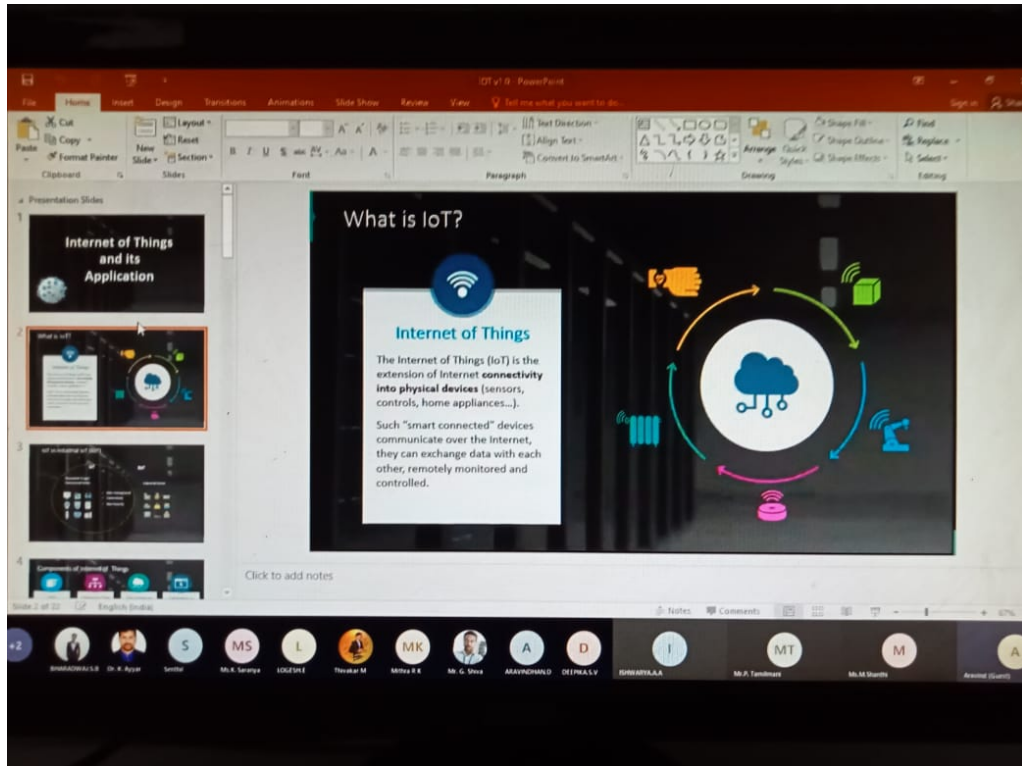
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Mr T Ram Kumar, Resource person from Aditi Digital Solutions, Hyderabad, Telangana, work shop on “Internet of Things”.



A webinar on Python Programming, conducted by a resource person Mr K GopiNadh, Senior Software Engineer, Hyderabad.





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## Group Discussions

**MrsGeethaBhavani, Assistant Professor**, in Department of Computer Science and Engineering is conducting Group Discussion on "Advanced concepts in Compilers".







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## Virtual Labs

Students were encouraged to utilize Virtual Labs:

- To provide remote-access to labs in various disciplines of Science and Technology
- To help them in learning basic and advanced concepts through remote experimentation and perform experiments enthusiastically which enhances the confidence levels of the students to implement the task using Virtual Labs.

Virtual Labs  
An AICTE Govt of India Institute

### Bubble Sort

Instructions

21	85	79	77	14	85	27	20	69	72
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Observations

Min. Speed  Max. Speed

Start Reset Pause

Virtual Labs  
An AICTE Govt of India Institute

### Cryptographic Hash Functions and Applications(HMAC)

A simulator for SHA-1

Plaintext (string):

SHA-1

Hash output(hex):

#### HMAC Construction using a "Dummy" Hash Function

HMAC construction

Plaintext:



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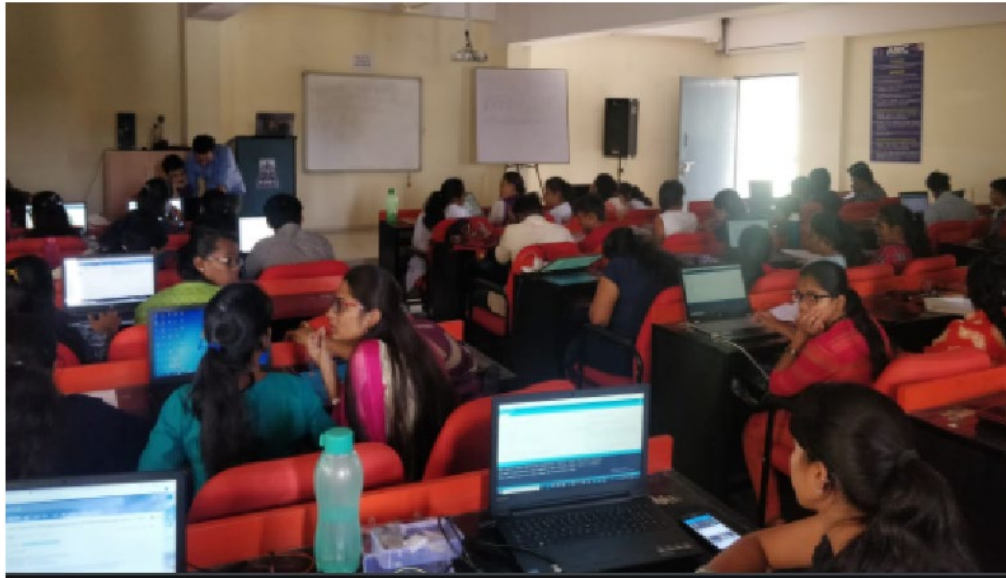
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## Experiential Learning

Students were given Real Time Case Studies and Problem Statements to explore, understand and implement so that it helps them to learn while doing.





### Flipped Class Room

Students were engaged in a debate with their peers, which can enhance student engagement, while also improving learning outcomes. PowerPoint presentation and material will be provided to students in advance on few important topics of all the five units. Interested students were given the chance to explain the topic. Questionnaire in the form of a crossword puzzle were given in classroom and discussion was done on the same. The students answered the crossword and solved the questionnaire in the form of crossword made it interesting. It helped students actively participate in classroom and got deeper knowledge about the concepts.



Students are encouraged to participate in events like coding Contest.





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## Internships

Students are encouraged for an internship in the Industry during Vacation, Students got selected for Intern in esteemed organizations like Wipro ,Rakuten, Tiger Analytics and Cognizant.

## FDP's / WORK SHOPS for Faculty

The faculty members are encouraged to participate in AICTE Training & Learning (ATAL) FDPs, short term courses and staff development programs on advanced topics to keep pace with the advanced level of knowledge and skills.

**Mr B Phijik** , Assistant Professor, Department of Computer Science & Engineering has participated in ATAL FDP .



**Mr B Phijik** , Assistant Professor, Department of Computer Science & Engineering has participated in 15 Day online FDP program on “Cyber Security held by JNTUH.



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## CENTRE OF EXCELLENCE IN CYBER SECURITY

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

Accredited with 'A' by NAAC





e-Certificate



S.No. 200802226

This is to certify that **Mr.Phijik Battula**,  
**Assistant Professor , Vignans Institute Of Management And Technology For Women** has participated in the 15-Day Online Faculty Development Programme on " Cyber Security " held from 24<sup>th</sup> August to 09<sup>th</sup> September, 2020 organized by JNTUH, Hyderabad, Telangana State.



**Dr R .Sridevi**  
Coordinator, CoE in Cyber Security,  
JNTUH



**Dr.M.Manzoor Hussain**  
REGISTRAR  
JNTUH



**Dr.A.Govardhan**  
Rector,  
JNTUH & Coordinator

**Mr B Phijik** , Assistant Professor, Department of Computer Science & Engineering has participated in TWO weeks Online FDP on “ Machine Learning for Computer Vision”





### Electronics & ICT Academies

**IIT Guwahati, IIT Kanpur, MNIT Jaipur, NIT Patna and PDPM IIITDM Jabalpur**  
 (Supported by the Ministry of Electronics and Information Technology, Govt. of India)





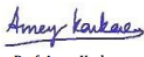


Machine Learning for Computer Vision 2021  
 February 1-12, 2021  
**Certificate of Completion**

This is to certify that **Dr./Mr./Ms. PHIJK BATTULA** from **VIGNAN'S INSTITUTE OF MANAGEMENT & TECH. FOR WOMEN** has participated in a two weeks online Faculty Development Programme on “**Machine Learning for Computer Vision**” jointly organized by the Electronics and ICT Academies at IIT Guwahati, IIT Kanpur, MNIT Jaipur, NIT Patna and PDPM IIITDM Jabalpur during **February 1-12, 2021** under the “**Scheme of financial assistance for setting up of Electronics and ICT Academies**” of the **Ministry of Electronics and Information Technology (MeitY), Government of India**. She /He has successfully completed all the requirements of the programme with an excellent grade. The programme is recognized by AICTE/UGC.



**Dr. Prithwijit Guha**  
Joint Principal Coordinator  
E&ICT Academy, IIT Guwahati



**Prof. Amey Karkare**  
Joint Principal Coordinator  
E&ICT Academy, IIT Kanpur



**Dr. Santosh Viparathi**  
Joint Principal Coordinator  
MNIT Jaipur



**Dr. Mukesh Kumar & Dr. Somaraju Suvvari**  
Joint Principal Coordinators  
NIT Patna



**Prof. Aparajita Ojha**  
Principal Coordinator and PI,  
E&ICT Academy, PDPM IIITDM Jabalpur