


Innovative Pedagogical Approaches adopted by the Faculty of the MCA Dept (2021-22 Odd Sem)

NEW HORIZON COLLEGE OF ENGINEERING <u>Pedagogical Methods /Innovative Teaching Pedagogy Report</u>					
Department	MCA	Academic Year	2021-22(ODD)		
Course Code	20MCA13	Course. Name	Operating System with Unix Programming	Semester 1	
Total No of Students	120	Name of the Faculty	Dr. Arpana Prasad	Date	05-05-2022
Topic Name: Activity on Ethical Hacking and Prevention.					
Brief report about the incorporated teaching Pedagogy		Activity Based Learning Approach: <ol style="list-style-type: none"> A. The objective of the class was to introduce the text editing utility ‘awk’ in UNIX. B. A video from the link AWK command in Unix/Linux with examples - YouTube was played. C. Some students were already aware of the ‘awk’ command at an introductory level. Since they had learnt the ‘awk’ command during their online classes, they were not very confident on its distinguishing role as a filter. D. A comparison was drawn between ‘awk’ command and other filters. By the end of learning session, the students were able to appreciate ‘awk’ as an editing utility that allows multi-character field delimiters. 			
<u>Snapshot</u>					
					

Course Code	20MCA11	Course Name	Programming with Java	Semester : I	
Total No of Students	120	Name of the Faculty	Ms. Binju Saju	Date	05-05-2022

Topic Name: Layout Manager

Brief report about the incorporated teaching Pedagogy

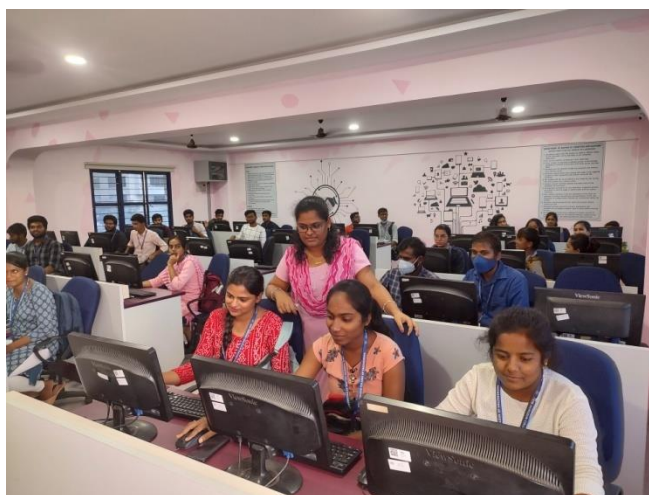
Collaborative Learning Approach

The concept of various layouts was introduced to the students with the help of Power point presentation.

Collaborative Learning approach is introduced in the class to make the students know and understand the concept in a better way. Students were asked to design a program with various AWT controls work out in the system in group of 3 and see what the different layouts available. The students were asked to identify the different alignments in various layouts.

Students by applying the knowledge received in the previous classes regarding AWT controls came out with their own programs and experienced how the various layouts are displayed in Java in an efficient way.

Snapshot



Course Code	20MCA14	Course. Name	Computer Networks	Semester: I	
Total No of Students	120	Name of the Faculty	Jincy C Mathew	Date	9-05-2022

Topic Name: Applications of computer networks

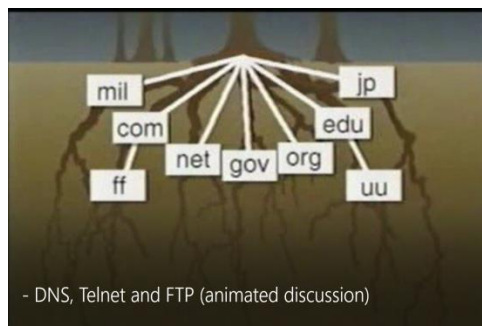
Brief report about the incorporated teaching Pedagogy

The different applications of computer network were discussed with students by using Activity based learning approach. Initially a video is played to make the students understand the features of protocols used in network applications.

Students were encouraged to read and explore on the applications like email, DNS, WWW, streaming of audio, video and content delivery. Few students came up on the stage and discussed in detail on the various protocols used in each application which were discussed with their functionalities.

The students were able to understand protocols like SMTP, POP3 and IMAP are used for email and as well as the architecture, message format and working of domain name server. Students got a clarity on different web protocols like HTTP and the protocols used for video, audio and content.

Snapshot



Course Code	20MCA16*	Course. Name	Programming Logic and Design	Semester: I	
Total No of Students	22	Name of the Faculty	S. P. Sreeja	Date	06.05.2022

Topic Name: File Handling Applications

Brief report about the incorporated teaching Pedagogy

Various File handling applications were taken from real-time scenario and were discussed with the students. Students come out with their ideas for the real-time situations.

Discussion approach is introduced wherein the students came out with the concept of different file processing techniques. Based on the concept, students were asked to find out the type of the file concept involved in it and its various processing.

It helped the students to easily identify and understand the various file handling techniques. It also made it easier for connecting the theory concept with actual practice. The various file processing methods were explained with examples, an overall idea was given for them to solve a given problem. Students discussed various examples and were asked to incorporate in the coming semester for their Mini project work, if required.

Snapshot



Course Code	20MCA15	Course. Name	Web Programming	Semester: I	
Total No of Students	120	Name of the Faculty	Vishwanatha C R	Date	13.05.2022

Topic Name: Database Access with PHP/MySQL

Brief report about the incorporated teaching Pedagogy

Database Access with PHP/MySQL is introduced to the students. Before that, a video is played to demonstrate the students how database operations are done using PHP and MySql.

Experiential learning approach is introduced with the help of the “Programming Demonstration”, wherein the students understand the concept directly. Based on the concept of the video, students were asked to write queries to the database.

It helped the students to easily write queries and understand the concept of Database Access with PHP/MySQL. It also made it easier for connecting the HTML program with PHP & MySql. The various programs were explained, an overall idea was given for them to understand how both can be connected.

Snapshot : Experiential Learning for Database Access with PHP/MySQL

