B.N.M. Institute of Technology

An Autonomous Institution under VTU

Department of Computer Science and Engineering

Activity / Innovative Method Used for Teaching Learning Process in 2024-25

Academic Year: 2024-2025					
Sl No	**Course Name with Code**	**Name of the Faculty**	**Activity**	**Description**	**Impact Analysis**
1.	Cryptography and cybersecurity 22CSE163	Mona	Case study on a real time Cyber Attack , and various tools were used for demonstration of concepts	Used various Tools like DVWA, and showed Cross site scripting and SQL injection	Understanding will be better
2.	System Software & Compiler Design 22CSE161	Dr. Anitha N Devi Naveen Priyanka Padki	Lex & Yacc Programs	Written programs for implementing compiler design concepts	Better understanding & analysis of parsing concepts
3.	Cloud Computing (22CSE1664)	Dr. Kavita V Horadi Kavyashree S	Cloud Deployment Activity was performed in which students deployed a web application on a cloud platform using AWS/Azure and configured basic cloud services	Students performed hands-on activities to upload, organize, and secure data using cloud storage services while learning file management and access control.	This approach enhanced students' practical cloud computing skills, project development experience, and understanding of cloud storage, security, and access control.
4.	Advanced IoT (23CSE146)	Prof.PallaviCV, Prof.AK.Sreeja, Prof.Menaka K	Mini Project	Students were made to carry out projects using the concepts of Advanced IoT along with demonstration.	Enhanced students' practical skills, problem-solving abilities & teamwork
5.	Data Warehousing & Data Mining (22CSE1653)	Smt.A K Sreeja (Smt.AKJ) ,/ Dr.Swetha M D(Dr.SMD)	Weka Data Mining Tool	Weka tool was demonstrated in the class, and students were asked to execute programs using the tool	Students gained practical experience in data mining by executing programs using the WEKA tool, enhancing their analytical, implementation, and machine learning skills.

6.	Advanced AI (23CSE1651)	Dr. Chaitra M/Prof. Sreeja	Mini Project	Students were made to carry out projects using the concepts of Advanced AI along with demonstration.	Enhanced students' practical skills & teamwork
7.	DBMS (24CSE143)	Dr. Chaitra M/Dr. CR/Prof. Kusuma R	Quiz, Mini Project, Tools	Done with Quiz based learning, mini project in dbms, different tools like draw.io tools.	-Enhances students' understanding and retention of DBMS concepts through regular self-assessment. - Develops problem-solving, teamwork, and project management skills by solving real-world database problems. - Enables students to create clear ER diagrams, relational schemas, and database designs visually.
8.	SPMF (23CSE151)	Dr. Chaitra M	Mini Project, Tools	Students were made to carry out projects using the star UML Tool.	-Improves system design skills by enabling students to create UML diagrams such as Use Case, Class, Sequence, and Activity diagrams, enhancing their understanding of software architecture. -Bridges theory and practice by allowing students to apply software engineering concepts to real-world project development using industry-standard modeling techniques.
9.	Big Data Analytics	Dr.Chayadevi ML	Mini Projects	Students developed mini projects using big data concepts, data processing techniques, and analytics tools to solve real-world problems.	Students gained practical knowledge of big data technologies, improved analytical thinking, and enhanced project development skills.
10.	Computer Graphics	Dr. Kavitha Jayaram	Game activity	Students participated in game-based activities to understand computer graphics	The activity made learning interactive, improved conceptual understanding, and increased student engagement and

				concepts such as transformations, rendering, and visualization.	creativity.
11.	Data science	Dr.Kavitha Jayaram	Game activity, sessions from LTI mind tree	Students participated in interactive game-based learning activities and attended expert sessions from LTIMindtree on data science concepts and industry applications.	Students gained industry exposure, improved their understanding of data science concepts, and developed greater interest in real-world applications.
12.	AIML	Dr.S.Geetha, Dr.Chaitra ,Dr.Santhosh R	Article writing/Research papers/Mini projects/cross word/finding AIML(NEMO)	Students participated in article writing, research paper reviews, mini projects, crossword puzzles, and AI/ML-based problem-solving activities such as Finding AI/ML (NEMO).	Students enhanced their research, critical thinking, technical writing, creativity, and practical AI/ML implementation skills while encouraging active learning.
13.	Programming using C	KSK,SSR, PCV	Code tantra, Mini projects	Students practiced C programming concepts through CodeTantra exercises and implemented mini projects to strengthen programming skills.	Students improved coding proficiency, logical reasoning, debugging skills, and confidence in solving programming problems through hands-on practice.