Department of Computer Science and Engineering

List of Innovative Teaching Methodologies AY:2022-23

S.No	Faculty Name	Course	Topic	Innovative methods adopted	Goals	Preparation	The significance of Result	Availability of review and critique	Reproducibility and Reusability
1	Dr.B.Vijay Kumar	Java	Assignment & material	LMS	Online learning enables students to work on online assignments and get material too.	Students Should possess knowledge of the LMS	Online studying is designed to accommodate everyone's needs	Report on concept demonstrate will be availed for the references	This can be adopted by any faculty and implement in their course
2	G.kalpana	Advanced Databases	Distributed DBMS Architecture	Think pair share	To improve communication skills, problem solving and critical thinking	Students will come with the good preparation on a topic	Improve Communication and cooperative skills	Report on concept demonstrate will be availed in website	This can be utilized by any faculty member and incorporated into their course.

3	K. Srinivasa Rao	JAVA Programming	**TalentNext's**	Project Based Learning	To make students understand through Presentation	Students Should have in-depth knowledge of the topic	Students are capable of doing real time projects	Report on concept demonstrate will be availed for the references	This can be used by any faculty and implement in their course
4	Shinde Ambika	Software Engineering	Inventory Management System	Project based learning	To encourage learning by actively engaging in real-world projects	Students Should have indepth knowledge of the topic	Students are capable of doing real time projects	Report on concept demonstrate will be availed in website	This can be utilized by any faculty member and incorporated into their course.
5	M.Vijaya	Compiler Design	Phases of compiler	Role play	To involve students in self-understanding	Assign roles to students	Students understand the topic clearly	Report on concept demonstrate will be availed in website	This can be used by any faculty and implement in their course
6	P.RajaShekhar	DBMS	Sailor & boat problem	Role play	Role play gives students the freedom to experiment with different approaches	Assign roles to students	Improve cooperative skills	Report on concept demonstrate will be availed in website	This can be adopted by any faculty and implement in their course
7	CH.Deepika	MFCS	Connectives	Role-play	To enhance teamwork cooperation and negotiation	Assign roles to students	Improve Communication and cooperative skills	Report on concept demonstrate will be availed in website	This can be used by any faculty and implement in their course
8	S.Girinath	E-commerce	EDP	Role play	Role play gives students the freedom to experiment with different approaches	Assign roles to students	Students are able to deal with real-world scenarios	Report on concept demonstrate will be availed in website	This can be adopted by any faculty and implement in their course

9	G.Roopa	FLAT	DFA	Role play	Role play gives students the freedom to experiment with different approaches	Assign roles to students	Students are able to deal with real-world scenarios	Report on concept demonstrate will be availed in website	This can be adopted by any faculty and implement in their course
10	S.Divya	Operating Systems	Introduction to operating system	Interactive Learning	To communicate/share data with the students at a time	Students Should possess knowledge of the topic	Increased engagement and motivation, enhanced knowledge retention.	Report on concept demonstrate will be availed in website	This can be used by any faculty and implement in their course
11	D.Venkateshwarlu	Data Warehousing Data Mining	K-Means Algorithm	LMS	To communicate with the students and encourage communication between them in forums and discussions.	Students should have basic knowledge about platform	To provide central location,to communicate with students,ask questions and make assignments.	Report on concept demonstrate will be availed for the references	This can be adopted by any faculty and implement in their course
12	Y.Prabhu Kumar	Big Data Analytics	Word Count	Role Play	Implemented Map Reduce Using Split,Mapping,Shufling,Sorting.	Assign roles to students	Students are able to deal with real-world scenarios. T	Report on concept demonstrate will be availed in website	This can be used by any faculty and implement in their course
13	V.Sri Lakshmi	Artificial Intelligence(III-II)	Real-world applications	Think-pair-share	To improve communication skills, problem solving and critical thinking	Students will come with the good preparation on a topic	Improve Communication and cooperative skills	Report on concept demonstrate will be availed in website	This can be adopted by any faculty and implement in their course

14	B.Sailaja	Design and Analysis of Algorithms(II-II)	Quick Sort	Role Play	Role play gives students the freedom to experiment with different approaches	Assign roles to students	Students are able to deal with real-world scenarios	Report on concept demonstrate will be availed for the references	This can be adopted by any faculty and implement in their course
15	PKVS Sarma	Mobile Application Development (IV-I)	Developing User Interface of Mobile Application	Think Pair Share	Deeper understanding and ability to think of their own	Students will come with the good preparation on a topic	To work in a collaborative environment	Report on concept demonstrate will be availed in website	This can be used by any faculty and implement in their course
16	V.prathima	Principles of Problem Solving	Principles of Problem Solving-II	Collaborative Learning	To communicate with the students and encourage communication between them in forums and discussions	Students Should have in-depth knowledge of the topic	Students can learn and increase their motivation and be at the centre of their growth.	Report on concept demonstrate will be availed in website	This teaching method can be implemented by faculty in succeeding years
17	Dr.K.Ramesh Babu	FLAT	Turing Machine	Think-pair-share	To improve communication skills, problem solving and critical thinking	Students will come with the good preparation on a topic	Improve Communication and cooperative skills	Report on concept demonstrate will be availed in website	This can be used by any faculty and implement in their course

| 18 | A.Swarna | Big Data Analytics | Big Data Failure | Case based Learning | To communicate with the students and encourage communication between them in forums and discussion | Students Should have in-depth knowledge of the topic | Students can learn and increase their motivation and be at the centre of their growth. | Report on concept demonstrate will be availed in website | This can be adopted by any faculty and implement in their course |