Innovations by the Faculty in Teaching and Learning

Clear goals and adequate preparation:

The goals of innovative practices in the teaching-learning process are to make the students get insight knowledge, skill sets and, in the course, and obtain good grades in the End Semester examinations.

To achieve this faculty members are consistently taking the following measures:

- Attending Faculty Development Programme
- Delivering lectures in Value Added Courses
- Undergoing industrial training and Implant training
- Undergoing Advanced Training Programme
- Self-equipping through Institute Industry Interaction
- Pursuing online courses

This enables the faculty members to get adequate preparation with subject knowledge to achieve the goal in the teaching-learning process.

Appropriate Methods, Effective Presentation, Reflective Critiques

The Teaching and Learning methods are very much essential for the CSE students to visualize most of their core concepts like Problem solving using Programming Languages (C,JAVA,Python etc), computer Organization, Computer Networks, compiler Design, TAFL, Database Management Systems, Cryptography and Network Securities, Software Engineering, UML and Cloud Computing. The importance of these subjects can be easily understood by looking at any of the question papers of competitive exam like GATE. Many students will find it difficult to understand the concepts of this subject because of the nature of the subject. It requires the students to visualize the each and every topic in three dimensional.

The students also find it difficult to do calculations involved in the subject since most of the quantities are vector. Hence to create interest among students and to make the subject comfortable for them to learn, various innovative practices were adopted in the teaching-learning process.

The list of innovative practices followed in teaching-learning processes is listed below

S.No.	Innovations by the Faculty in Teaching and Learning
1.	Learning with technology involving creation of YouTube channel
2.	Learning with live demonstration of computer hardware
3.	Learning with Course Certifications (NPTEL, Coursera, Solo Learn, Spoken Tutorial, &Udemy,EdX)
4.	Learning by Research Paper
5.	Learning by Industrial Visit
6.	Teaching through Collaboration(Group discussions, Group Projects)
7.	Teaching through Role Play
8.	Teaching through Technology (Mind Map tools,etc.)
9.	Teaching through Cloud Computing
10.	Demonstration of Project through Animated Video and handmade Poster
11.	Teaching through Flipping Classroom
12.	Teaching through Alumni Interaction
13.	Teaching through Virtual Labs (EBOX, BYTEXL)
14.	Student Seminars
15.	Blended Learning
16.	Virtual Teaching - Learning Management System (LMS) (Google Class Room, Microsoft Teams)
17.	Project Based Learning
18.	Social Responsibility
19.	Teaching through Animations and Presentations
20.	Learning by Technology (Blogs, Online Test Tools-Moodle)
21.	Digital Library

Name of the Faculty & Courses	Type of Innovation in Teaching & Learning Method	The Objective of the Innovation	Significance Results Observed	Template
Dr. S.V.N. Srinivasu - Cloud Computing	Learning with technology involving creation of YouTube channel	YouTube channels has become one of the teaching tools for teachers all around the world and are adding to their arsenal. The channels make it easier and more convenient for teachers to pass knowledge to students in ways that were never possible in the past. With video lectures it encourages a level of familiarity that helps with building a community and knowledge that is always available and accessible, irrespective of teacher's and student's location	The students were able to attend lecture at any place and at any time. Also they would explore and learn from more lectures available for all the new technologies and frameworks.	Introduction to Cloud Computing Dr. S. V. N. SEENWASU PROCESSOR DEMARMANT OF COMPUTES SCENCE

Name of the Faculty- Course	Type of Innovation in Teaching & Learning Method	The Objective of the Innovation	Significance Results Observed	Template
Mr M.Satyam Reddy - Front End Web Technologies	Learning Through Collaboration	It involves encouraging student collaboration for various projects. We live in a globalized world and collaboration is an essential life skill that is important for all careers and enterprises. Teachers	• Allows students to develop useful	
Ms. Sd Rizwana – Advanced Java Web Technologies		can help foster this skill ir the classroom by allowing students to learn, study and work in groups.	I .	

Name of the Faculty - Course	Type of Innovation in Teaching & Learning Method	The Objective of the Innovation	Significance Results Observed	Template
Sd.Rizwana- AJWT K.Gnanendra - FEWT M.Satyam Reddy- FEWT Ch.Anil- C Programming	Learning with Course Certifications	Students follow the course with help of video lectures and are being tested with help of quizzes at the end of all chapters in the course and at the end certificates are earned by them on successfully completing the course.	It gives students confidence that they have learned and passed their test. This experience gives exposure to ideas and approaches outside their comfort zone. In addition, they are being able to think outside their experience which is an ingredient of leadership.	This is to certify that Mamidala.Sai Kumar has successfully completed the HTML Fundamentals course Ver Preparage Certificate #1014-12880F43
Sd. Rizwana- AJWT M.Satyam Reddy- FEWT	Teaching through Technology (Mind Map Tool)	Students understands how using digital technology tools could help in boosting task efficiency. By using new tools and technology like hive for extracting important insights from huge data in no time	Students got better understanding of concepts and as well as got knowledge of how to use online tools for the subject. It also ensures that students who have missed class either for illness or any other reason stay updated at all times. It eliminates the need for lugging around heavy textbooks and allows students to learn at a time, place and pace that they are comfortable with.	Lifecycle of Sendet Service Service Description S

Name of the Faculty- Course	Type of Innovation in Teaching & Learning Method	The Objective of the Innovation	Significance Results Observed	Template
Dr. SVN Srinivasu – SE, IOT		Bringing technology into the classroom allows educators to experiment with innovative methods of teaching. The use of cloud computing is one such method where teachers can save vital classroom resources such as lesson plans, notes, audio lessons, videos, and assignments details on the classroom cloud. This can then be accessed by the students from the comfort of their homes, whenever needed bringing the classroom back to the students with the click on a mouse.(Google Class Room)	through app sign in and evaluation will be done. Students got better understanding of concepts and as well as got knowledge of how to use online tools for the subject. It also ensures that students who have missed class either for illness or any other reason stay updated at all times. It eliminates the need for lugging around heavy textbooks and allows students to	B Sale C E Sale And And C E Sale And C E

Name of the Faculty course	Type of Innovation in Teaching & Learning Method	The Objective of the Innovation	Significance Results Observed	Template
A.Janardhana Rao -	Department Digital Library	In order to overcome the gap between the theoretical knowledge and Practical knowledge, The Digital Library is very helpful for Faculty and Students can access the class presentations, previous question papers, course Materials and E-journal.	The students were very involved and learned students to have self-learning beyond curriculum through the facilities available in the Learning resource centre such as National Programme on Technology Enhanced Learning (NPTEL) Video Lectures and E-journals: IEEE, J-GATE, DELNET, IEI, NDL	S.No E-Journal Web address IEEE https://ieeexplore.ieee.org/Xplore/home.jsp J-GATE https://jgateplus.com/home/ DELNET http://delnet.nic.in/ IEI https://www.ieindia.org/webui/iei-home.aspx NDL https://ndl.iitkgp.ac.in/
Dr.K.Lakshmi Nadh – Software Engineering	Learning by Industrial Visit	In order to overcome the gap between the theoretical knowledge and Practical knowledge, this teaching technique is very helpful. Students can understand how to implement their knowledge practically	The students were very involved and learned how the industry works, what practices are followed there and how to prepare for working in IT field.	

Name of the Faculty	Type of Innovation in Teaching & Learning Method	I ne Objective of the Innovation	Significance Results Observed	Template
Sd.Rizwana- AJWT M. SatyamReddy- FEWT	Student Seminars	communication skills and reduce the	Bringing out the communication skills of students	

Name of the Faculty - course	Type of Innovation in Teaching & Learning Method	The Objective of the Innovation	Significance Results Observed	Template
Sd.Rizwana- AJWT	Project Based Learning	Improve the Methodology to Integrate knowledge and skills	The students were very involved and learned how to develop a web application.	To the second second considerate and considera

Name of the Faculty - course	Type of Innovation in Teaching & Learning Method	The Objective of the Innovation	Significance Results Observed	Template
Sd.Rizwana- AJWT		the skills and apply		C C C C C C C C C C C C C C C C C C C

Name of the Faculty - course	Type of Innovation in Teaching & Learning Method	The Objective of the Innovation	Significance Results Observed	Template
Sd.Rizwana- AJWT		students will learn how to build codes for designing web	By the end of this tutorial, students will be able to apply problem solving principles to create a code for designing the Web applications.	A CARL LINE AND A CARLOS ALL AND A CARLOS AN
M.Satyam Reddy- FEWT		students will learn how to build codes for designing web	By the end of this tutorial, students will be able to apply problem solving principles to create a code for designing the Web applications.	

Name of the Faculty - Course	Type of Innovation in Teaching & Learning Method	The Objective of the Innovation	Significance Results Observed	Template
M. Sireesha – Mini Project	Learning by Research Paper	research papers and technical terms given in quality literature and understand its implementation in emerging technologies and recent advancement. Also how to write quality content for IEEE	The students developed their habit to refer classic papers from reputed journals and transactions like IEEE Transaction on Machine learning, IOT and many other fields of technology. They developed their understanding over the recent advancement in the field; knew the peer community and got familiar with technical way of documentation.	CONVOLUTIONAL LISTM MODEL FOR SENTIMENT ANALYSIS IN SOCIAL BIG DATA NARASARAOPETA NARASARAOPETA OULDANGE OF BELMANSI VAZRAM PROFESCA Selaminel by Rodeline of BELMANSI VAZRAM PROFESCA L'Organis Selaminel by Rodeline of

Name of the Faculty- Course	Type of Innovation in Teaching & Learning Method	II D D D D D D D D D D D D D D D D D D	Significance Results Observed	Template
Dr.K.LakshmiNad h	ICT Support Learning - NPTEL	ICT tools can be used to find, explore, analyze, exchange and present information responsibly and without discrimination. ICT can be employed to give users quick access to ideas and experiences from a wide range of people, communities and cultures. NPTEL- SWAYAM: SWAYAM is a programme initiated by Government of India and designed to achieve the three cardinal principles of Education Policy viz., access, equity and quality. The objective of this effort is to take the best teaching learning resources to all, including the most disadvantaged. Largest online repository in the world of courses in engineering, basic	Bringing out the expertise in technology with certification, programme skills, confidence of student that they have learned and passed their test. This experience gives exposure to ideas and approaches outside their comfort zone. In addition, they are being able to think outside their experience which is an ingredient of leadership.	The stationary person and or can be controlly access playing to the first of the efficiency file controlled by con

		sciences and selected humanities and social sciences subjects. Online facilities are provided to students for enrolling in various NPTEL courses. Faculty encourage the students to take get certified in NPTEL The faculty continuously guide the students and act as a mentor in solving NPTEL assignments. Students follow the course with help of video lectures and are being tested with help of quizzes at the end of all chapters in the course and at the end certificates are earned by them on successfully completing the course		
Dr S V N Srinivasu & M.Shyam Kumar Python, HTML,JAVA	ICT Support Learning – Spoken Tutorial	Process of active learning method which greatly improves understanding. To learn and use open source software: https://spoken-tutorial.org/ Students follow the course with help of video lectures and are being tested with help of quizzes at the end of all chapters in the course and at the end certificates	Bringing out the expertise in technology with certification, programme skills, confidence of student that they have learned and passed their test. This experience gives exposure to ideas and approaches outside their comfort zone. In addition, they are being able to think outside their experience	* \$ season burgares * \$ feeting burgares * \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$

	are earned by them on successfully completing the course	which is an ingredient of leadership.	
ICT Support Learning – Course Era	Course era: Online facilities are provided to students for enrolling in various Courseera courses. Faculty encourage the students to take get certified in Courseera The faculty continuously guide the students and act as a mentor in solving Courseera assignments Students follow the course with help of video lectures and are being tested with help of quizzes at the end of all chapters in the course and at the end certificates are earned by them on successfully completing the course	Bringing out the expertise in technology with certification, programme skills, confidence of student that they have learned and passed their test. This experience gives exposure to ideas and approaches outside their comfort zone. In addition, they are being able to think outside their experience which is an ingredient of leadership.	UNIVERSITY OF MICHIGAN JAYA SRI BANDI Tengananya ha Tengahah Jahang Banara sah Pighadi Tenganan ha Tengahah Jahang Banara sah Pighadi Tenganan

	ICT Support Learning – Edex	the students to take get certified in Edex The faculty continuously guide the students and act as a mentor in solving Edex assignments Students follow the course with help of video lectures and are being tested with help of quizzes at the end of all chapters in the course and at the end certificates are earned by them on	Bringing out the expertise in technology with certification, programme skills, confidence of student that they have learned and passed their test. This experience gives exposure to ideas and approaches outside their comfort zone. In addition, they are being able to think outside their experience which is an ingredient of leadership.	
CSS Fundamentals, JavaScript, Python 3 Tutorial, C++ Tutorial Concepts	Support	students and act as a mentor in solving Sololearn assignments	Bringing out the expertise in technology with certification, programme skills, confidence of student that they have learned and passed their test. This experience gives exposure to ideas and approaches outside their comfort zone. In addition, they are being able to think outside their experience	CERTIFICATE The se county for Karnati manasa Karnati manasa To San Summer Cas Fundamentals Source The San Summer Cas Funda

		being tested with help of quizzes at the end of all chapters in the course and at the end certificates are earned by them on successfully completing the course	which is an ingredient of leadership.	
Database Fundamentals Introduction to programming using HTML&CSS	ICT Support Learning – MTA	students for enrolling in various MTA courses. Faculty encourage the students to take get certified in MTA The faculty continuously guide the students and act as a mentor in solving MTA assignments Students follow the course with help of video lectures and are being tested with help of quizzes at the end of all chapters in the	Bringing out the expertise in technology with certification, programme skills, confidence of student that they have learned and passed their test. This experience gives exposure to ideas and approaches outside their comfort zone. In addition, they are being able to think outside their experience which is an ingredient of leadership.	Microsoft Techno Associate JAYANAGA DURGA JALADI Na samunkh punjanéh na ngawani sa shundh hahadaga kasasan ba Introduction to Programming using HTML and CSS International Nation 1 208 orbitrational National 208 orbitrational National 208 orbitrational National 208 orbitrational National 208

Programming in C#	ICT Support Learning – MCP	students for enrolling in various MCP courses. Faculty encourage the students to take get certified in MCP The faculty continuously guide the students and act as a mentor in solving MCP assignments Students follow the course with help of video lectures and are	Bringing out the expertise in technology with certification, programme skills, confidence of student that they have learned and passed their test. This experience gives exposure to ideas and approaches outside their comfort zone. In addition, they are being able to think outside their experience which is an ingredient of leadership.	Figure 1997 to 1997 Final Action Process of Antonion States Conference on the States Conference
3D Environmnet	ICT Support Learning – Udemy	UDEMY: Online facilities are provided to students for enrolling in various UDEMY courses. Faculty encourage the students to take get certified in UDEMY The faculty continuously guide the students and act as a mentor in solving UDEMY assignments	Bringing out the expertise in technology with certification, programme skills, confidence of student that they have learned and passed their test. This experience gives exposure to ideas and approaches outside their comfort zone. In addition, they are being able to think outside their experience	Certificate of Completion This is to cruity that Pullarso Yenumuda microsthuly completed 38 hours of Creating 3D antironhents in Bendre online course on Oct. 31, 2009 The Completion of the Completion of Creating 3D antironhents in Bendre online course on Oct. 31, 2009 The Completion of Creating 3D antironhents in Bendre on Oct. 31, 2009 The Completion of Creating 3D antironhents in Bendre on Oct. 31, 2009 The Completion of Creating 3D antironhents in Bendre on Oct. 31, 2009 The Completion of Creating 3D antironhents in Bendre on Oct. 31, 2009 The Completion of Creating 3D antironhents in Bendre on Oct. 31, 2009 The Completion of Creating 3D antironhents in Bendre on Oct. 31, 2009 The Completion of Creating 3D antironhents in Bendre on Oct. 31, 2009 The Completion of Creating 3D antironhents in Bendre on Oct. 31, 2009 The Completion of Creating 3D antironhents in Bendre on Oct. 31, 2009 The Completion of Creating 3D antironhents in Bendre on Oct. 31, 2009 The Completion of Creating 3D antironhents in Bendre on Oct. 31, 2009 The Completion of Creating 3D antironhents in Bendre on Oct. 31, 2009 The Completion of Creating 3D antironhents in Bendre on Oct. 31, 2009 The Completion of Creating 3D antironhents in Bendre on Oct. 31, 2009 The Completion of Creating 3D antironhents in Bendre on Oct. 31, 2009 The Completion of Creating 3D antironhents in Bendre on Oct. 31, 2009 The Completion of Creating 3D antironhents in Bendre on Oct. 31, 2009 The Completion of Creating 3D antironhents in Bendre on Oct. 31, 2009 The Completion of Creating 3D antironhents in Bendre on Oct. 31, 2009 The Completion of Creating 3D antironhents in Bendre on Oct. 31, 2009 The Completion of Creating 3D antironhents in Bendre on Oct. 31, 2009 The Completion of Creating 3D antironhents in Bendre on Oct. 31, 2009 The Completion of Creating 3D antironhents in Bendre on Oct. 31, 2009 The Completion of Creating 3D antironhents in Bendre on Oct. 31, 2009 The Completion of Creating 3D antironhents in Bendre on Oct. 31, 2009

	Students follow the course with help of video lectures and are being tested with help of quizzes at the end of all chapters in the course and at the end certificates are earned by them on successfully completing the course		
Android Development Nanodegree, Full Stack Webdevelopment Uda	students and act as a mentor in solving UDACITY assignments	Bringing out the expertise in technology with certification, programme skills, confidence of student that they have learned and passed their test. This experience gives exposure to ideas and approaches outside their comfort zone. In addition, they are being able to think outside their experience which is an ingredient of leadership.	W UDACITY NORMANT SASSEE Andred Developer handelepse

Name of the Faculty	Name of the Subject	The Objective of the Innovation	Significance Results Observed	Template
All Faculty	All Subjects	Engineering College by developing state-of- the-art facilities. They conducted workshop on	Active participation of students. Remembering the topic for a longer time.	** Transcriber (1) ** ** * * * * * * * * * * * * * * * *

Name of the Faculty	Type of Innovation in Teaching & Learning Method	The Objective of the Innovation	Significance Results Observed	Template
Dr.S.N.Tirumala Rao- MSWD	Group Discussions	To develop skills in interpersonal communication and in expressing views in a clear and concise manner Idea:To make students develop communication skills Implementation:Select topic Students are divided into groups. Each group is assigned a name based on topic selected. Students are asked to give their views on the concept	Bringing out the creative thoughts of students	

Name of the Faculty	Type of Innovation in Teaching & Learning Method	Ine Objective of the	Significance Results Observed	
Dr.S.Siva Nageswara Rao- Projects	Group projects		Bringing out the creative thoughts of students.	

Name of the Faculty	Type of Innovation in Teaching & Learning Method	I ne Uniective at the	Significance Results Observed	students actively participated in Chlorination Program at Yallamanda Village
Ms M.Sireesha & NSS Programme Officer	Social Responsibility	Implementation: NSS Students are conducted many	Bringing out the social responsibility by creative thoughts of students.	NSS NOT ME

Name of the Faculty&Subject	Type of Innovation in Teaching & Learning Method		Significance Results Observed	
Shaik Rafi- DataStructures	Animations and Presentations	sorting techniques for easy to	Active participation of students. Remembering the topic for a longer time.	Note the same of a present companion of a single frequency to the same of the

Name of the Faculty	Type of Innovation in Teaching & Learning Method		Significance Results Observed	Template
	Teaching through Role Play	They also develop social and communication skills through group activities associated with the teaching of ADA. Role play can be a very useful strategy	Gives students ownership over the learning process Increases student motivation to learn Allows students to develop useful skills in self- and peer-assessment	

Name of the Faculty	Type of Innovation in Teaching & Learning Method	The Objective of the Innovation	Significance Results Observed	Template
Ms P.RamaDevi & Ch.Anil- IT Workshop	Learning with live demonstration of computer hardware	Using live demonstration of computer hardware, for understanding computer architecture, it becomes easy for students to grasp the working of computer system, its organization and architecture.	It helps to understand architecture, and students are able to identify which hardware of system is used for which purpose	CONNECTORS DISPLAY - BOARD SECTION THE CONTROL THE CO

Name of the Faculty &Subject	Type of Innovation in Teaching & Learning Method	The Objective of the Innovation	Significance Results Observed	Template
Dr K. Lakshminadh NMS	Demonstration of Project through Animated Video and handmade Poster	fulfilite Also will help them to	Students got better idea how to develop their project, what steps he/she must follow to achieve complete implementation	

Name of the Faculty	Type of Innovation in Teaching & Learning Method	The Objective of the Innovation	Significance Results Observed	Template
Dr S V N Sreenivasu- Cloud Computing	Teaching through Flipping Classroom	It involves encouraging student for presentation of different concepts from the syllabus as a part of revision. Flipping the classroom is an effective teaching method. In this technique, the students are made active participants of the learning process by passing the onus of learning on them, it requires the teachers to relegate to the role of resource providers and the students take the responsibility of gathering concepts information. Using various tools of technology the students are encouraged to constructing knowledge, fill in the information gaps and make inferences on their own as and when needed.	educators play to the role of guides, mentors, supervisors for the students. It also teaches	Screttrum of Cloud Users Pub S

Name of the Faculty	Type of Innovation in Teaching & Learning Method	The Objective of the Innovation	Significance Results Observed	Template
Dr S.V.N.Sreenivasu Machine Learning	Teaching through Alumni Interaction	How to apply the principles of software engineering to the design, development, maintenance, testing, and		

Name of the Faculty- Course	Type of Innovation in Teaching & Learning Method	The Objective of the Innovation	Significance Results Observed	Template
O.Aruna - JAVA (JDoodle)	Teaching through Virtual Labs	It involves learning of theoretical concepts of Software Engineering with help of virtual environment so that students will get better understanding of subject. Using Virtual labs first concepts are explained to students and then they are tested for their knowledge on the very same concepts.	Teaching using this technique makes teaching and learning interesting for students. They get involved in lessons so that they can answer the quizzes at the end.	My back house is accorded to the control of the con
Shaik Rafi - DS (EBOX)	Teaching through Virtual Labs	It involves learning of algorithms and programming concepts with the help of ilearn, i-Learn Learning Resources in virtual environment of E-Box where the students can able to listen the videos and analyse their skills with i-Explore, i-Analyse and practice their programmes in i-practise	_	No Section No No No No No No No

Innovative Teaching Methods	Methods /Tools used	The Objective of the Innovation			
		their subjects.	ve also created their own bl		upload study material relevant to essed by all students
		Name of Faculty	Google sites URL	Subjects available in sites	
	Google Blogs	Dr. S.N.Tirumala Rao	Sighakollitirumalarao.blogs pot.com	CO,UNIX	
		Dr. B.Jhansi Vazram	Jansibollanec.blogspot.co m	CNS,FLAT	
Learning by Technology		Dr.S.V.N. Srinivasu	drsrinivasu.blogspot.com	SQAT, SE, IOT,CLOUD COMPUTING	
		Dr.G. Syam Prasad	syamprasad.gudapati.blog spot.com	CD,FLAT	
		Dr.T.V.Sai krishna	drsaikrishnanec2021.blog spot.com	SE	
		Dr.K. Lakshminadh	drklmn7.blogspot.com	NMS,SQAT,SR E	
		Dr.S.Siva Nageswara Rao	drssnr.blogspot.com	MC,WNMC	
		Dr.M.Venkata Reddy	venkatareddy2021.blogsp ot.com	DWDM	

Innovative Teaching Methods	Methods /Tools used	The Objective of the Innovation		
		G.L.N.Jaya prada	Jayanec.bolgspot.com	MSWD
		M. Sireesha	moturisireesha.blogspot.c om	DBMS,SPR
		K. Gnanendra	gnanendrakotikam.blogsp ot.com	CD
		Sd.Rizwana	syedrizwana.blogspot.co m	AJWT, BDA,DS
		SK.Khaja Mohiddin Basha	Skkmbasha.blogspot.com	DS
		G. Lakshmi Narayana	lakshminarayananec2020. blogspot.com	CN
		Shaik Rafi	rafishaik786.blogspot.co m	Python, DS,DAA
		O. Aruna	arunasris.blogspot.com	MASN,JAVA
		M. Satyam Reddy	msrnotes2020.blogspot.co m	FEWT
		K.V. Narasimha Reddy	narasimhareddy2010.blog spot.com	STM
		Ch.Anil	anilchintalapudi.blogspot.	C PROGRAMMI NG
		K.Arun	arunnec2020.blogspot.co m	C PROGRAMMI NG
		B.Siva Kanaka Raju	sivakanakarajunec2021.bl ogspot.com	OS

Innovative Teaching Methods	Methods /Tools used	The Objective of the Innovation		
		Sk.Sameerunnisa	sameerunnisa.blogspot.co m	CD,DAA,OS
		A.Thanuja	thanujanec2021.bolgspot.	C PROGRAMMI NG
		U.Vijay Kumar	vijaykumarnec2021.blogs pot.com	PYTHON,C
		N. Ananth Rami Reddy	ananthnec2021.blogspot.c om	JAVA
		Y.Bhagya Lakshmi	ykreddy333.blogspot.com	C PROGRAMMI NG
		R.Dileep Kumar	dilliproddanec2021.blogs pot.com	DBMS
		T. Venkata Manohar	venkatamanoharnec2021. blogspot.com	UML
		B.Rama Krishna	brknec2021.blogspot.com	JAVA
		G.Venkateswara Rao	gvronce2021.blogspot.co m	
		Y.Chandana	chandananec2021.blogsp ot.com	DWDM
		M. Ramakrishna Reddy	ramakrishnareddynec202 1.blogspot.com	OS
		D. Srinivasa Rao	dsrneccse2021.blogspot.c om	
		G. Srinadh	srinadhneccse.blogspot.co m	

Innovative Teaching Methods	Methods /Tools used	The Objective of the Innovation				
		A. Janardhana Rao	janardhan.nec.blogspot.co m	BDA		
	Google Classroom	classroom. Lecture mater	rials, Assignments, Quiz que	estions are posted		
Virtual Teaching	Microsoft Teams	Many faculty members are using Google Classroom for organizing and managing online classes. An online class is a course conducted over the Internet. They are generally conducted through a learning management system, in which students can view their course syllabus and academic progress, as well as communicate with fellow students and their course faculty. These classes can be recorded for future reference.				
	Virtual Labs	Lab experiments are recorded and the demo videos are shared with the students. This is done mainly for Data Structures, Java Programming Languages This practice provides a complete Learning Management System for Virtual Labs where the students can avail various tools for learning, including additional web-resources, video-lectures, animated demonstrations, and self-evaluation.				
Information and Communication Technologies (ICT) Enabled Teaching- Learning	LCD projector	Objectives: To provide direct access to quality instructional resources through computers connected in LAN and Internet. Motivate the students to do electronic presentations (PPT).				

Innovative Teaching Methods	Methods /Tools used	The Objective of the Innovation
		Outcome: The students and faculty members are engaged in an effective teaching and learning process through the use of digital learning platforms.
		This has become a standard norm in the teaching-learning process. Power point presentations are very effective in Communication Skill Development, Improving verbal skills for effective public speaking and Sharing of Knowledge by communicating in regular interactions.
	Power point Presentations	Student Seminars: Seminar from the first semester onwards (other than seventh semester) which is being practiced in Sahrdaya helps students to enhance oral expression and presentation skills. This significantly boosts students' confidence and their learning experience.
		Seminars are a vital part of academic programs that allow developing essential skills and understanding of the subject.
		Faculty members are motivated to students to take up online courses for their subjects from various eminent platforms like NPTEL, Coursera, Edex,.
MOOCs	NPTEL,	
		NPTEL Local Chapter:

Innovative Teaching Methods	Methods /Tools used	The Objective of the Innovation
		Our college is having NPTEL Local Chapter: It is a partnership between the college and NPTEL. Many students and faculty members in the department enroll for courses and get certified after the successful completion of the course.
		Coursera:
		Many faculty members and students in the department have completed online courses based upon their area of interest. These courses also help the faculty to advance their skills for career development.
		https://www.coursera.org/
Alumni	Technical Talk	Alumni students are invited for a technical talk and interact with the students. It is arranged in each semester for the students to know the current industry needs.
Interaction		somester for the students to know the current meastly needs.

Innovative Teaching Methods	Methods /Tools used	The Objective of the Innovation
roject Based Learning		The department has made it a mandatory requirement for every student to design and conduct a project, right from the fifth semester onwards which is beyond the regular curriculum for the semester. This helps the student to have a hands-on approach to the engineering design process and utilize the theoretical aspects they have learnt to develop prototypes and design experiments on what they have learnt
	and	• During the fifth semester, the students conduct a mini-project that focuses on the fundamental software design aspects of computer Science and Engineering. A project group consisting of a maximum of four members under the guidance of a faculty member explores a scientific principle related to their area of interest. The learning process is given more weightage during the assessment and not the results obtained.
		Students in their sixth semester are encouraged to do a project which will help them to learn new technical skills with guidance from an allotted faculty member. They are encouraged to explore a problem and develop a simple prototype or working model that can solve it. This introduces them to the concept of the Engineering design process method.
		The group of students is also mentored by their allotted guides in preparing a well-structured report. To assist this process, the institution has published a scientific format in which each project group is required to submit the report. This practice helps the students to understand and improve their scientific writing skills. The prepared report is archived in both soft and hard copy and is made available in the department library for peer reference.
Activity Based Teaching	Collaborative Learning	It involves encouraging student collaboration for various projects. We live in a globalized world and collaboration is an essential life skill that is important for all careers and enterprises. Teachers can help foster this skill in the classroom by allowing students to learn, study and work in groups.

Innovative Teaching Methods	Methods /Tools used	The Objective of the Innovation
	Flipped Class Room	It involves encouraging student for presentation of different concepts from the syllabus as a part of revision. Flipping the classroom is an effective teaching method. In this technique, the students are made active participants of the learning process by passing the onus of learning on them, it requires the teachers to relegate to the role of resource providers and the students take the responsibility of gathering concepts information. Using various tools of technology the students are encouraged to constructing knowledge, fill in the information gaps and make inferences on their own as and when needed
	Group discussions	To make students develop communication skills
	Seminars	To make students develop communication skills and reduce the stage fear in them.
	Blended Learning	
	Social Responsibility	To inculcate the social responsibility by participating students in NSS programmes
	Role Pay	The results reveal that participants are more enthusiastic to engage in class activities. They also develop social and communication skills through group activities associated with the teaching of ADA. Role play can be a very useful strategy to teach concepts that are perceived as abstract.
	Learning by Doing	

Innovative Teaching Methods	Methods /Tools used	The Objective of the Innovation
	Mind Map	For better understanding and learning of concepts, new technology provides various tools. Students understands how using digital technology tools could help in boosting task efficiency. By using new tools and technology like hive for extracting important insights from huge data in no time can benefit the user in many ways.
Audio-Visual Aids	YouTube videos	The video lectures of specific topics in selected courses were prepared by the course faculty and had the same content as the classroom lectures. Video lectures give students control of the lecture and are portable. Students can replay segments and stop the lecture as they study to understand the content. They can skip segments of topics they know. In effect, they can adjust the instructors delivery speed and topic selection to match their learning pace, especially beneficial to the weak students.
	Digital Library	Faculty and Students can access the class presentations, previous question papers, course Materials and journal resources also from the Digital Library.