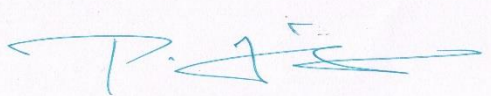|	
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Department of Information Science and Engineering

Date :9.9.2019

DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2019-2020 ODD
Subject Name and Subject Code	Software Engineering
Faculty Name	**Dr.P.VIJAYAKARTHIK**
Semester	3 rd semester
Name of the Innovative Teaching Methods used	Task cards and Think share and Pair
Short Description of the Innovative Teaching Activity.	The objective of using Task cards in classrooms is to develop students as independent learners. Basically, a task card will have tasks or questions on them. They will be given tasks like programmer, software Test Engineer, Project These Tasks cards are one of the best tools for reinforcement and assessment. We have used this Task Cards Technique for demonstrating the topic "Role of Software Engineer and various -TASK CARDS will be given to students. Think Pair and share is a collaborative learning strategy to develop teamwork among the students. In this method, students can work in partnerships to solve a given problem like " Issues in developing the software. This allows them to think individually as well as to share ideas to come up with a solution. They can discuss the ideas with their allotted partner before sharing it with a larger group. We have used this innovative method to and the students came with more number of solutions by implementing the Innovative Teaching Methods - Think Pair and share Technique.
Number of students got benefited.	60

Number of students involved in the activity.	5 students
Venue of the Activity	Class Room Number 005
Schedule of the Event	9.9.2019
Whether the work can be Reproduced and Reviewed.	YES
Details are available in the college website.	YES
Photograph for the event	**Student performing "Task card Method" by implementing the Innovative Teaching Methods "** **Demonstrating the topic " Issues in developing the software" by implementing the Innovative Teaching Methods -Think Pair and share.**

Contents of the Event	- Students will perform various tasks on stage in the class room about the role of software developer, Tester, Project manager in IT Company.
Impact Analysis after using this Innovative Teaching Methods used.	Students have shown more interesting in learning the subject.
Feedback from the students	Our students have expressed this Task Cards and Think Pair and share and this Innovative Teaching Methods are very interesting and they can understood the concept very quickly.
Relevance to PO and PSO	PO1, PO2, PO9,P10,PO12
Any comments or Suggestions from the Programme Co-ordinator	The content should be made readily available in the College website.

Signature of the Faculty	**Signature of the HOD**
Dr. P. VIJAYAKARTHIK M.E., Ph.D. Professor and Head Dept. Of Information Science and Engg. Sir. M. Visvesvaraya Institute of Technology, Bengaluru, Karnataka - 562 157. Dr.P.VIJAYAKARTHIK	Dr. P. VIJAYAKARTHIK M.E., Ph.D. Professor and Head Dept. Of Information Science and Engg. Sir. M. Visvesvaraya Institute of Technology, Bengaluru, Karnataka - 562 157. Dr.P.VIJAYAKARTHIK

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Department of Information Science and Engineering

Date :12.11.2021

DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2021-22 ODD
Subject Name and Subject Code	DBMS (18CS53)
Faculty Name	**Mr. Vijayakumara Y M**
Semester	5th semester
Name of the Innovative Teaching Methods used	**Fish Bone Technique.**
Short Description of the Innovative Teaching Activity.	Difference between traditional file system management and database management systems is explained using the fish bone innovative teaching methodology. Redundancy, Access control, Data persistency, constraints, back up and recovery etc.
Number of students got benefited.	40
Number of students involved in the activity.	10
Venue of the Activity	Class Room Number: NB 005
Schedule of the Event	11.11.2021
Whether the work can be Reproduced and Reviewed.	YES

Details are available in the college website.	YES
Photograph for the event

Difference between traditional file system management and database management systems is explained using the fish bone innovative teaching methodology. |
| **Contents of the Event** | DBMS vs FILE SYSTEMS |

Impact Analysis after using this Innovative Teaching Methods used.	Students have shown more interesting in the subject.
Feedback from the students	Our students have expressed this innovative Teaching Methods is very interesting and they can understand the concept very quickly.
Relevance to PO and PSO	PO1, PSO2, P012, PS01
Any comments or Suggestions from the Programme Co-ordinator	The content should be made readily available in the College website.

Signature of the Faculty	Signature of the HOD
Mr.Vijayakumara Y.M	

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Date : 25-10-2021

DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2021-2022 ODD
Subject Name and Subject Code	**Automata Theory and Computability(18CS54)**
Faculty Name	**Mrs. SUGUNA M K**
Semester	5th semester
Name of the Innovative Teaching Methods used	Demonstration of Deterministic Finite Automata using JFLAP software
Short Description of the Innovative Teaching Activity.	JFLAP is software for experimenting with formal languages topics including deterministic finite automata, nondeterministic finite automata, nondeterministic pushdown automata, multi-tape Turing machines, several types of grammars, parsing, and L-systems. In addition to constructing and testing examples for these, JFLAP allows one to experiment with construction proofs from one form to another, such as converting an NFA to a DFA to a minimal state DFA to a regular expression or regular grammar. I demonstrated how to draw DFA using JFLAP software

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Number of students got benefited.	60
Number of students involved in the activity.	-
Schedule of the Event	25.10.2021
Whether the work can be Reproduced and Reviewed.	YES
Details are available in the college website.	NO

Photograph for the event	
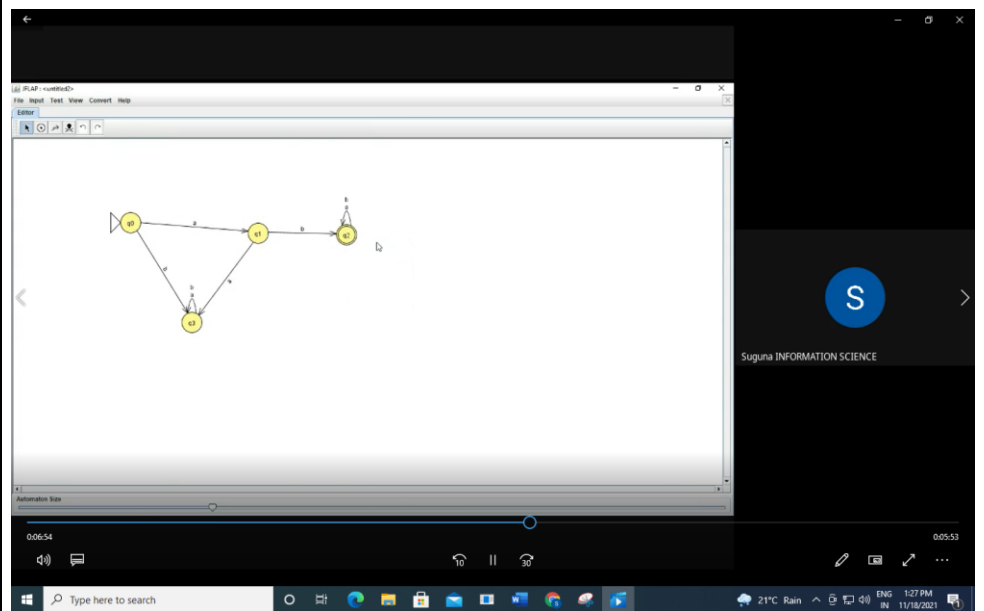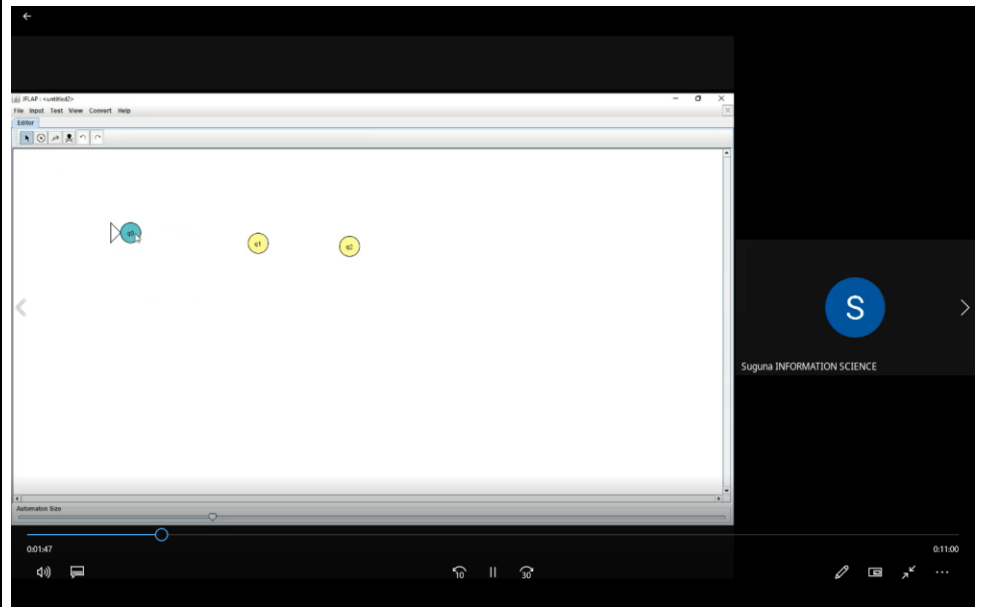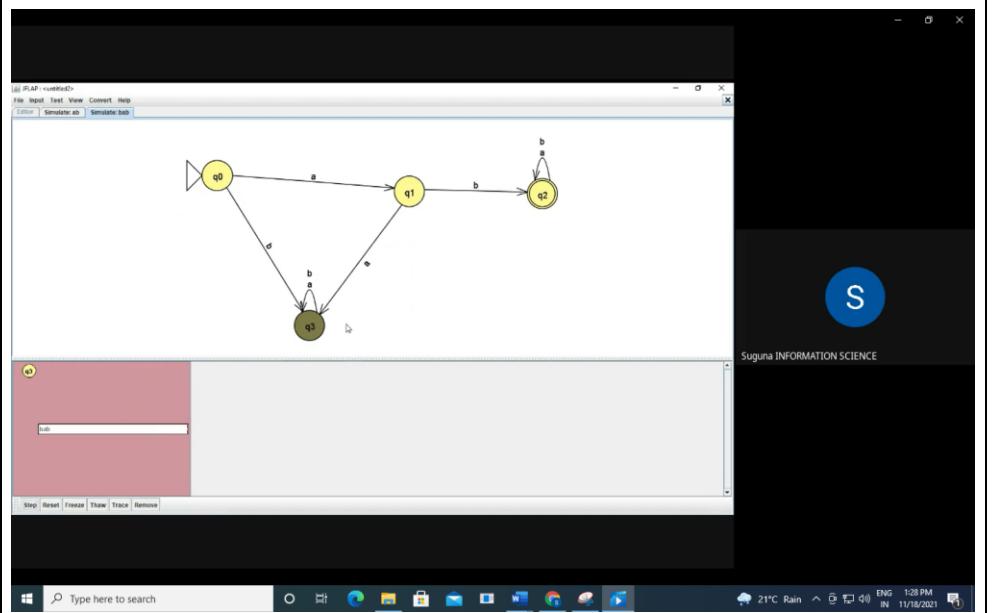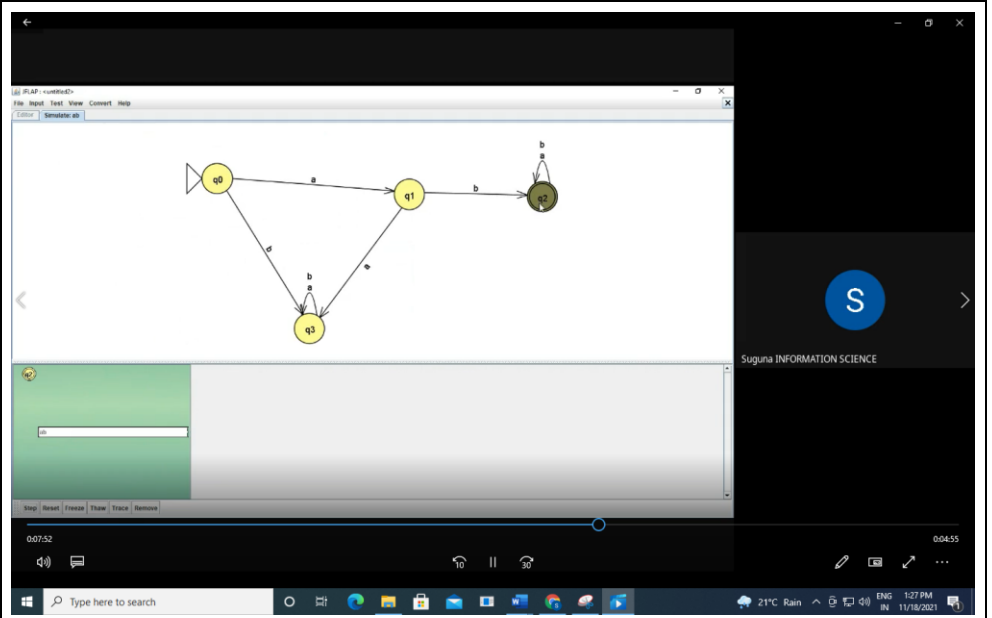
Demonstrating to draw DFA to accept strings of a and b starting with ab

4

Contents of the Event	JFALP software
Impact Analysis after using this Innovative Teaching Methods used.	Students have shown more interesting towards the subject.
Feedback from the students	Our students have also learned how to use JFLAP software to solve DFA problems
Relevance to PO and PSO	PO1, PO5, PO12, PS01
Any comments or Suggestions from the Programme Co-ordinator	This activity should be extended for next batch of students .

Signature of the Faculty	**Signature of the HOD**
Mrs. Suguna MK	Dr. P. VIJAYAKARTHIK M.E., Ph.D. Professor and Head Dept. Of Information Science and Engg. Sir. M. Visvesvaraya Institute of Technology. Bengaluru, Karnataka - 562 157.

Date :08.11.2021

DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

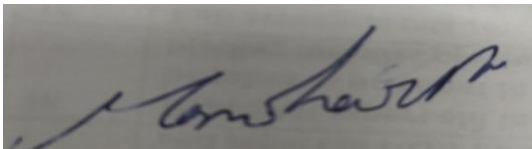|	
Academic Year	2021-22 ODD
Subject Name and Subject Code	Network Management (18CS742)
Faculty Name	**Mr. Manohar R**
Semester	7th semester
Name of the Innovative Teaching Methods used	**Case Study**
Short Description of the Innovative Teaching Activity.	Case study was presented by the students in the class room to understand the current world problems.
Number of students got benefited.	30
Number of students involved in the activity.	03
Venue of the Activity	Class Room Number 003A
Schedule of the Event	08.11.2021
Whether the work can be Reproduced and Reviewed.	YES
Details are available in the college website.	YES

| Photograph for the event | |

Students presenting case study.

Contents of the Event	Case Study presentation.
Impact Analysis after using this Innovative Teaching Methods used.	Students have shown more interesting in learning through case studies.
Feedback from the students	Our students have expressed this Innovative Teaching Methods is very interesting and they can understand the concept very quickly.
Relevance to PO and PSO	PO1,PO9, PO10,PO5, PSO1
Any comments or Suggestions from the Programme Co-ordinator	The content should be made readily available for the students.

Signature of the Faculty	**Signature of the HOD**
	Dr. P. VIJAYAKARTHIK M.E., Ph.D. Professor and Head Dept. Of Information Science and Engg. Sir. M. Visvesvaraya Institute of Technology. Bengaluru, Karnataka - 562 157.

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Date : 14.8.2021

DETAILS OF THE GROUP DISCUSSION ACTIVITY

Academic Year	2020-2021 EVEN
Subject Name and Subject Code	Design and Analysis of Algorithms(18CS42)
Faculty Name	**Dr.CH.Vanipriya**
Semester	4th semester
Name of the Activity	Group Discussion about various websites for improving the coding skills
Short Description of the Activity.	A great way to improve the coding skills when learning to code is by solving coding challenges. Solving different types of challenges and puzzles can help one become a better problem solver, learn the intricacies of a programming language, prepare for job interviews, learn new algorithms, and more. This activity let the students explore the websites and discuss about the advantages of using the particular website.
Number of students got benefited.	55
Number of students involved in the activity.	55
Venue of the Activity	Online
Schedule of the Event	14.8.2021

Whether the work can be Reproduced and Re-viewed.	YES
Photograph for the event	
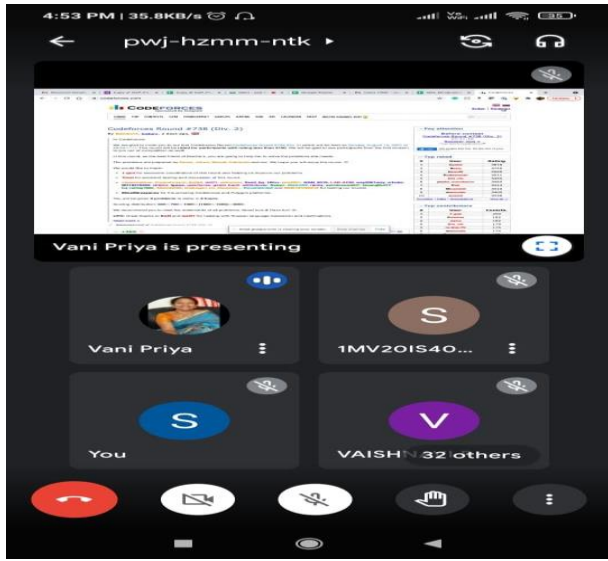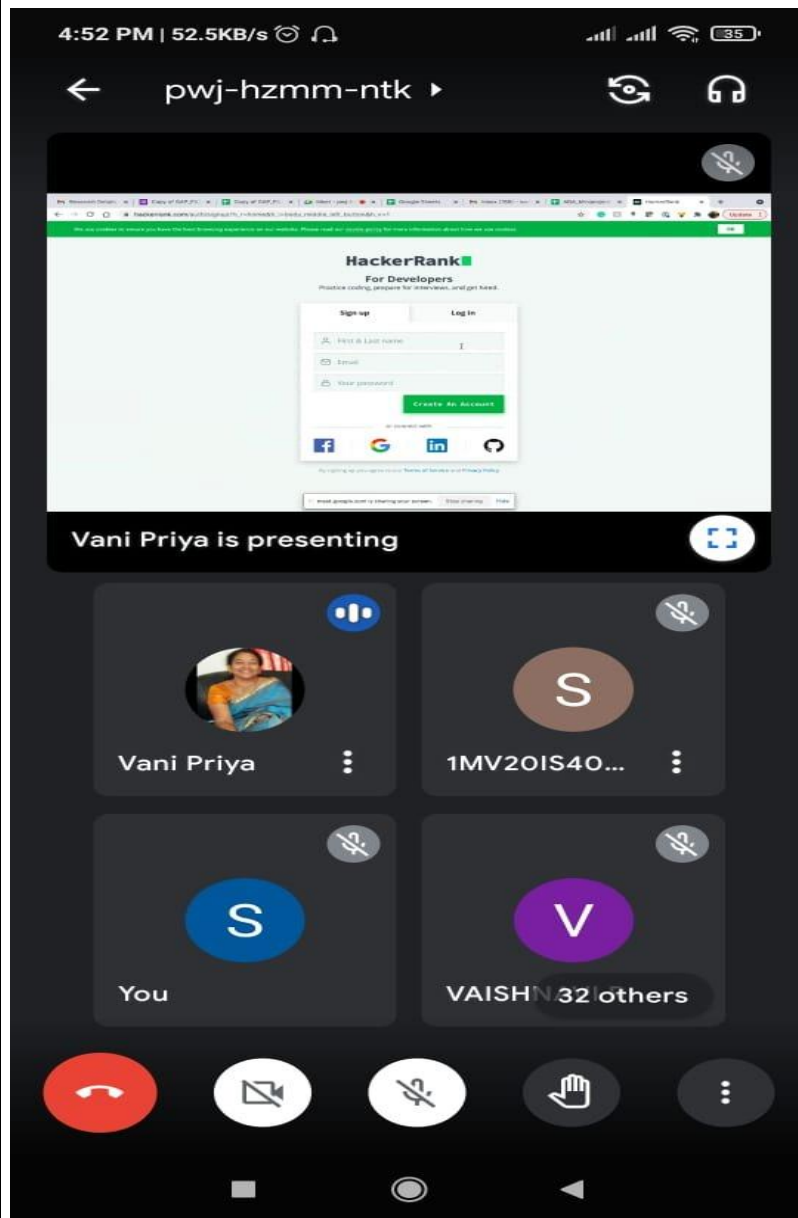
Students participating in the Group Discussion on the Topic "Websites for improving the coding skills "

https://www.freecodecamp.org/news/the-10-most-popular-coding-challenge-websites-of-2016-fb8a5672d22f/

Contents of the Event	**Various websites:** 1. TopCoder 2. Coderbyte 3. Project Euler 4. HackerRank 5. CodeChef 6. Exercism.io 7. Codewars

	8. LeetCode 9. SPOJ 10. CodinGame
Impact Analysis after using this Innovative Teaching Methods used.	Students have gone through various websites and found that they can practice the code and get through the placemants
Feedback from the students	Students have expressed this Group Presentation Activity is very interesting and they understood the need of these websites
Relevance to PO	PO 1, PO9, PO10, PO12
Relevance to PSO	PSO1-3
Any comments or Suggestions from the Programme Co-ordinator	Very Good Initiative so that Team building skills and Communication of students will be improved by this Group Presentation Activity.

Name of the Faculty	**Signature of the HOD**
Dr.VANIPRIYA CH	Dr. P. VIJAYAKARTHIK M.E., Ph.D. Professor and Head Dept. Of Information Science and Engg. Sir. M. Visvesvaraya Institute of Technology, Bengaluru, Karnataka - 562 157.

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Date :10/11/21

DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2021-22 (odd sem)
Subject Name and Subject Code	Big Data Analytics(18CS72)
Faculty Name	**Mrs.Vandana M**
Semester	7th semester
Name of the Innovative Teaching Methods used	**Role Play**
Short Description of the Innovative Teaching Activity.	Role play games for teaching the two fundamental components in the Hadoop framework, MapReduce and Hadoop Distributed File. Students form teams and play different roles as a part of a Hadoop cluster. This activity is designed to let students collaborate with peers in the same way as MapReduce and HDFS components collaborate to perform computing jobs in a Hadoop cluster. Utilizing a computer communication channel, the games are designed to le students quickly and effectively understand typical MapReduce and HDFS operations. Survey results from students in two big data classes show that the games effectively improve learning outcome in understanding MapReduce and HDFS workflow and the Hadoop framework in general. Students appear more engaged in class activities and communicate with peers more often.
Number of students got benefited.	55

Number of students involved in the activity.	6
Venue of the Activity	Room No 003B
Schedule of the Event	10/11/21
Whether the work can be Reproduced and Reviewed.	YES
Details are available in the college website.	YES

Photograph for the event	 **STUDENTS PERFORMING ROLE PLAY ACTIVITY**

Contents of the Event	Understanding MapReduce and HDFS workflow and the Hadoop framework in general.
Impact Analysis after using this Innovative Teaching Methods used.	Students have Shown more interest in the subject with more interaction
Feedback from the students	Students have expressed this innovative Teaching Methods is very interesting and they can understand the concept very quickly.
Relevance to PO and PSO	PO1,PO9, PO10

Name of the Faculty	Signature of the HOD
Mrs. VANDANA. M	Dr. P. VIJAYAKARTHIK M.E., Ph.D. Professor and Head Dept. Of Information Science and Engg. Sir. M. Visvesvaraya Institute of Technology. Bengaluru, Karnataka - 562 157.

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DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2021-22 ODD
Subject Name and Subject Code	Management and Entrepreneurship (18CS51)
Faculty Name	**Mr. Manohar R**
Semester	5th semester
Name of the Innovative Teaching Methods used	**Group Discussion**
Short Description of the Innovative Teaching Activity.	Group Discussion was conducted in the class room to demonstrate the interview process in the Management subject .
Number of students got benefited.	36
Number of students involved in the activity.	36
Venue of the Activity	Class Room Number 005
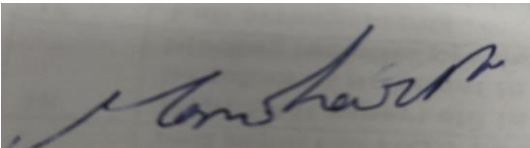
Schedule of the Event	08.11.2021
Whether the work can be Reproduced and Reviewed.	YES
Details are available in the college website.	YES

Photograph for the event	 Students participating in Group Discussion.

Contents of the Event	Group Discussion for interview.
Impact Analysis after using this Innovative Teaching Methods used.	Students have shown more interesting in participating in hands on topics.
Feedback from the students	Our students have expressed this innovative Teaching Methods is very interesting and they can understand the concept very quickly.
Relevance to PO and PSO	PO1, PO10, PO9, PSO1.
Any comments or Suggestions from the Programme Co-ordinator	The content should be made readily available for the students.

Signature of the Faculty	**Signature of the HOD**
	Dr. P. VIJAYAKARTHIK M.E., Ph.D. Professor and Head Dept. Of Information Science and Engg. Sir. M. Visvesvaraya Institute of Technology. Bengaluru, Karnataka - 562 157.

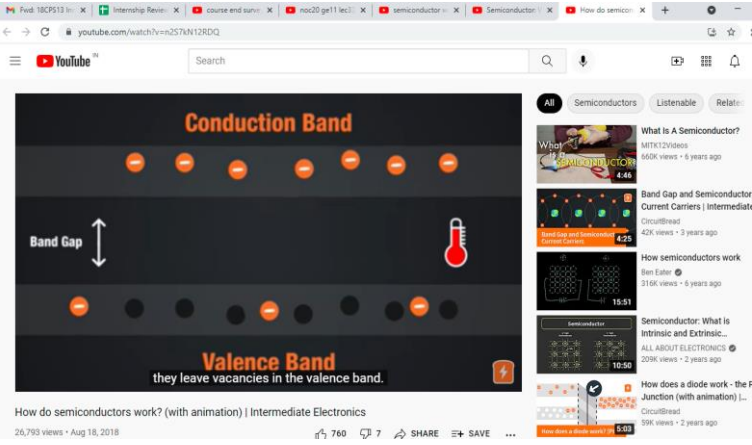Sir.M.Visvesvaraya Institute of Technology
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Date :02-09-2020

DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2020-21 ODD
Subject Name and Subject Code	Analog and Digital Electronics (18CS33)
Faculty Name	**Mr. RAGHAV S**
Semester	3rd semester
Name of the Innovative Teaching Methods used	**Demonstration by using Animation video**
Short Description of the Innovative Teaching Activity.	Demonstration of working of Semiconductor, how free electrons and holes will combine. And also how free electrons jump from valance band to conduction band
Number of students got benefited.	52
Number of students involved in the activity.	All
Venue of the Activity	online
Schedule of the Event	02-09-2020
Whether the work can be Reproduced and Reviewed.	YES

Details are available in the college website.	YES
Photograph for the event	
Contents of the Event	Working of Semiconductor
Impact Analysis after using this Innovative Teaching Methods used.	Students have shown confident in understanding the concepts.
Feedback from the students	Our students have expressed this innovative Teaching Methods is very interesting and they can understand the concept very quickly.
Relevance to PO and PSO	PO1,PO5, PSO1
Any comments or Suggestions from the Programme Co-ordinator	The content should be made readily available in the College website.

Signature of the Faculty	**Signature of the HOD**
Mr. Raghav.S	Dr. P. VIJAYAKARTHIK M.E., Ph.D. Professor and Head Dept. Of Information Science and Engg. Sir. M. Visvesvaraya Institute of Technology, Bengaluru, Karnataka - 562 157.

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Date :28-10-2021

DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2021-22 ODD
Subject Name and Subject Code	Analog and Digital Electronics (18CS33)
Faculty Name	**Mr. RAGHAV S**
Semester	3rd semester
Name of the Innovative Teaching Methods used	**Think pair and Share**
Short Description of the Innovative Teaching Activity.	Demonstration of working of Semiconductor, Diode, BJT
Number of students got benefited.	39
Number of students involved in the activity.	All
Venue of the Activity	online
Schedule of the Event	28-10-2021
Whether the work can be Reproduced and Reviewed.	YES

Details are available in the college website.	YES
Photograph for the event	
Contents of the Event	Working of Semiconductor, Diode, BJT
Impact Analysis after using this Innovative Teaching Methods used.	Students have shown confident in understanding the concepts.
Feedback from the students	Our students have expressed this innovative Teaching Methods is very interesting and they can understand the concept very quickly.
Relevance to PO and PSO	PO1

Any comments or Suggestions from the Programme Co-ordinator	The content should be made readily available in the College website.

Signature of the Faculty	**Signature of the HOD**
Mr. Raghav .S	Dr. P. VIJAYAKARTHIK M.E., Ph.D. Professor and Head Dept. Of Information Science and Engg. Sir. M. Visvesvaraya Institute of Technology, Bengaluru, Karnataka - 562 157.

Date : 25.11.2019

DETAILS OF THE INNOVATIVE TEACHING METHODS USED BY THE FACULTY

Academic Year	2019-20 ODD
Subject Name and Subject Code	**Information Management System(15IS753)**
Faculty Name	**Mrs. SUGUNA M K**
Semester	7th semester
Name of the Innovative Teaching Methods used	Group Task Activity
Short Description of the Innovative Teaching Activity.	Group tasks are activities where a defined group of individuals need to perform a defined task and accomplish the goals assigned to them. A group is basically given a simple task to be completed in some given time and the candidates are expected to solve not only the problems and difficulties related to the given task but also some real life problems like working under pressure, handling a team without having prior knowledge of doing so, coming to a single efficient solution when everyone else in the team have their own ideas. A group task is more alike to judge you on factors like leadership qualities, team spirit, creativity and problem solving ability and many such. Though you think it's a group task but your every move is monitored along with your attitude towards the problem and as well as towards the given situation.
Number of students got benefited.	40

1

Number of students involved in the activity.	15
Venue of the Activity	Class Room Number 003A
Schedule of the Event	25.11.2019
Whether the work can be Reproduced and Reviewed.	YES
Details are available in the college website.	YES

| **Photograph for the event** |

Demonstrating the task "Management" by **Implementing the Innovative Teaching Methods -Group Task** |
| --- | --- |

Contents of the Event	Assigned the task -all the team members as to form a line according to order of their date of birthday based on month.(Only through eye contact) How they have completed the task? What is the method they have used?(Thinking capability) What time they have completed?(Time Constraint) Leadership Skills?
Impact Analysis after using this Innovative Teaching Methods used.	Students have shown more interesting in the subject.
Feedback from the students	Our students have expressed this Group Task Innovative Teaching Methods is very interesting
Relevance to PO and PSO	PO1,PO9,PO10,P012, PS01
Any comments or Suggestions from the Programme Co-ordinator	This activity should be uploaded in the college website

Signature of the Faculty	Signature of the HOD
Mrs. Suguna. M.K	Dr. P. VIJAYAKARTHIK M.E., Ph.D. Professor and Head Dept. Of Information Science and Engg. Sir. M. Visvesvaraya Institute of Technology. Bengaluru, Karnataka - 562 157.