**INNOVATIVE IDEAS ADOPTED IN TEACHING LEARNING**

**ACADEMIC YEAR 2021-22**

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| Sl.No | Name of the Faculty | Subject Name with code | Topic | Innovation Method |
| 1 | Dr. Sreenivasa B R | Data Structure and its Applications | Tower of Hanoi | 1. Activity based learning  2. Udemy Courses for students |
| 2 | Sheik Imran | Management and Entrepreneurship for IT industry  (18CS51) | Case studies of Entrepreneurs | Preparing and Presenting the case studies of various entrepreneurs. |
| 3 | Jyothi G C | Analog and Digital Electronics (18CS33)  Software Architecture and Design Patterns (18CS731) | 1.Photodiodes  2. Light emitting diode  3. Opto couplers  4. Voltage switched network.  5. Case study of UML diagrams | <https://youtu.be/iaS2-aDwgAM>  <https://youtu.be/aNUM-_k37j0>  <https://youtu.be/tryspijpZJk>  <https://youtu.be/T0Jwjnakq6I>  <https://youtu.be/WnMQ8HlmeXc> |
| Software Testing 18IS62 | Software Testing Methodologies | Preparing the report and writing the test cases on particular real time application. |
| 4 | Bhuvaneshwari K V | Application Development UsingPython  (18CS55) | Lists,Tuples,Dictionary,Strings, Regular expression, Files, Classes and objects | 1.Conducted Hands-On session to demonstrate working examples of python concepts along with Installation of Anaconda Navigator.  2.Conducted Quiz in online mode. |
| 5 | Anitha G | MC&ES 18CS44 | Application and different characteristics on ARM Microcontroller | Created a student group to give presentation on different topics. |
| 6 | Patil N S  &  Rekha B.H | Discrete Mathematical Structures  18CS36 | All 5 Modules | Quiz |
| 7 | Patil N S  &  Nagashri J A | Automata Theory and Computability  18CS54 | All 5 Modules | Quiz |
| 8 | Varsha M. | Design and Analysis of Algorithm 18CS42 | Skill Development activity. | Demonstration of Algorithms for the various problems. |
| 9 | Puneeth S P and Rekha B H | UNIX Programming 18CS56 | Flipped Class | Conducted flipped class on Daemon Processes |
| 10 | Divya M S | 18CS71  Artificial Intelligence and Machine Learning | Q - Learning, Reinforcement Learning  State Space Search in Artificial Intelligence with example  Problem Reduction Search AND-OR Graph  Best First Search Algorithm | https://youtu.be/FeijiYzN1B4  https://youtu.be/FeijiYzN1B4  https://youtu.be/oPVj17gB7gY  https://youtu.be/Uzraf9TYhjY |
| 11 | Roopa D E | Computer Networks and Security  18CS52 | 1. Computer Networks and Security Online Quiz on Application Layer 2. Computer Networks and Security Online Quiz on Network Layer | <https://forms.gle/Rfg87qGtcNDsZesQA>  <https://forms.gle/iw2JpjTHhRQNX1pk6> |
| 12 | Manjushree K R | Analog and Digital Electronics  18CS33 | All 5 Modules | Quiz |
| 13 | Shruthi N | Computer Networks and Security  18CS52 | 1. Computer Networks and Security Online Quiz on Application Layer 2. Computer Networks and Security Online Quiz on Network Layer | <https://forms.gle/Rfg87qGtcNDsZesQA>  <https://forms.gle/iw2JpjTHhRQNX1pk6> |
| 14 | Santhosh T | Web Technology and its Applications | HTML,CSS, and PHP Examples | Hands-on session to demonstrate working examples of web concepts |

**Program Coordinator**

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**ACADEMIC YEAR 2019-20**

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| Sl.No | Name of the Faculty | Subject Name with Code | Topic | Innovation Method |
| 1 | Varsha M. | Design and Analysis of Algorithm 18CS42 | Optimal Binary Search Tree, Single Source Shortest Paths |  |
| 2 | Puneeth S P  &  Kamala R | Software Testing 17IS63 | Fault Based Testing, Test Execution, Process Framework, Documenting, Analysis and Test | Power Point Presentation |
| 3 | Sheik Imran  &  Rekha B H | Operating Systems(18CS43) | Scheduling Algorithm, Disk Scheduling and Deadlock | NPTEL Video and PPT Presentation |
| Cryptography, Network security and cyber law  17CS61 | Public key cryptography and RSA-RSA operations, Key Management | Power Point |
| 5 | N S Patil  &  Jyothi G C | Automata Theory and computability  17CS54 | Conversion of NFA to DFA |  |

**Program Coordinator**

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**ACADEMIC YEAR 2022-23**

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| Sl. No | Name of the Faculty | Subject Name with code | Topic | Innovation Method |
| 1. | Sheik Imran | Management and entrepreneurship for it industry 18CS51 | UDYAMSHEEL-22 | Demonstration of Technical Solutions for Real World Problems |
|  | PYTHON ENVOI-2022 | Technical Presentation Competition for 3rd semester Students in connection with Python programming |
| 2 | Dr.Ashok K  &  Dr. Rekha C | Cryptography 18CS744 | ECC Algorithm | Report on Cryptography was prepared by students on various Algorithms. |
| 3 | Kamala R | Computer Organization and Architecture  18CS34 | Online Quiz on all 5 modules | Quiz |
| 4 | Manjushree K R | Analog and Digital Electronics 18CS33 | Online Quiz on all 5 modules | Quiz |
| 5 | Roopa D E  &  Nagashri J A | Computer Network and Security  18CS52 | Online Quiz on all 5 modules | Quiz |
| 6 | Madhuri Martis  &  Nomitha Chawla | Database Management Systems  18CS53 | Online Quiz on all 5 modules | Quiz |
| 7 | Rekha B H  and  Chaitra K J | UNIX Programming 18CS56 | Crossword | Conducted Crossword for students |
| 8 | Vinutha D | Computer Organization and Architecture  18CS34 | ROLEPLAY for 3rd semester students | Roles performed by the students |

**Program Coordinator**

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**ACADEMIC YEAR 2020-21**

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| Sl.No | Name of the Faculty | Subject Name with code | Topic | Innovation Method |
| 1 | Anitha G | File Structures 18IS61 | All concepts of Syllabus | Quiz |
| 2 | Jyothi G C  &  Kamala R | Software Testing  18CS63 | Design and develop a program in JAVA to implement Triangle problem and test cases | Implemented, executed and tested the code of different testing methods using JAVA programming language. |
| 3 | Rekha B H  &  Puneeth S P | Internet of Things  18CS81 | Crossword | Conducted crossword puzzle for Students |
| 4 | Ranjana B Jadekar  & Puneeth S P | Database Management Systems  18CS53 | Introduction to Database, Conceptual Data Modelling, using entities and relationships, Relational model and SQL | Quiz |
| 5 | Divya M S | Object Oriented Concepts  18CS45 | Object Oriented programming with real life example | Assigned students to give presentation on different topics |
| 6 | Manjushree K R | User Interface Design  17CS832 | GUI | Given the task to students to design user interface |

**Program Coordinator**