



Gayatri Vidya Parishad College of Engineering for Women

Madhurawada, Visakhapatnam

(Affiliated to JNTUK, Approved by AICTE, New Delhi)

Department of Computer Science and Engineering

Innovative Methodologies

Academic Year:2021-22

S. No.	Faculty Name	Year/Sem	Course Name	Innovation Used	Methodology Adopted	Outcome
1	Dr. P.V.S.L. Jagadamba	2021-22 (II-I)	Applications of Python - NUMPY	Programming Puzzles through Hacker rank (Web link: ps://www.hackerrank.com/challenges)	Students solved Programming Puzzles which are taken from Hackerrank. This activity is taken place in the class and all students are also asked to submit a report on the programs they worked in the class.	Students engaged both inside and outside of the classroom and actively learn the concepts of NUMPY through problem solving.
2	Dr. P.V.S.L. Jagadamba	2021-22 (II-II)	Applications of Python - PANDAS	Apply Pandas concepts such as Data Aggregation, Group By on a dataset in Python platform and submit a report.	Asked every student to choose a dataset from websites like Kaggle in such a way that 1. The dataset should contain both numeric data, character data and date data 2. The dataset should have a minimum of 100 rows 3. Apply Pandas concepts on the dataset. 4. Execute all functions on the dataset in the selected topics in Jupyter Notebook 5. Save as pdf and submit that as a report.	Students engaged both inside and outside of the classroom and actively learnt the pandas programming concepts.
3	Dr. N. B. Venkateswarlu	2021-22 (I-II)	Programming	Program Visualization was provided to the students through python tutor for Data Structures.	The program run was shown directly to the students and the data structures used were also described.	Students obtained extra knowledge of the data structures and enthusiastically participated in the discussion.
4	Dr. N. B. Venkateswarlu	2021-22 (I-I)	Programming	Program Visualization was provided to the students through python tutor for C Programming.	The program run was shown directly to the students and the data structures	Students obtained extra knowledge of the data structures and enthusiastically

					used were also described.	participated in the discussion..
5	Dr. M. Bhanu Sridhar	2021-22 (IV-II)	Artificial Neural Networks	Discussion about Convolutional Neural Networks and Recurrent Neural Networks in a motivative way-Unit-3 (not included in syllabus)	These concepts were dealt in a unique way such that they were used in project by a batch for healthcare data prediction.	The 2 practices were motivated and took up the topic for their project work using Glaucoma data. (Batch B-9 Project Report)
6	Dr. M. Bhanu Sridhar	2021-22 (IV-II)	Artificial Neural Networks	Discussion about Back Propagation Algorithm in depth in an innovative way	This concept was dealt in a unique way such it was used in project by a batch for healthcare data analysis	The students were motivated and took up the topic for their project work using Diabetes data. (Batch A-2 Project Report)
7	Dr.N.Sharmili	2021-22 (I-I)	PPSC and PPSC lab	Personal Blog https://logintosharmi.blogspot.com have been developed for sharing material, sites related to programming related to PPSC. (https://logintosharmi.blogspot.com/2021/02/ist-unit-of-c.html)	PPSC Theory and Lab are discussed with the help of DevC++ and Python Tutor. This activity is taken place in the class and all students are also asked to solve different C problems beyond the syllabus with the help of DevC++ and Python Tutor in Lab.	Students engaged both inside and outside of the classroom and actively learn the concepts of PPSC through problem solving and attempted to solve Programming Puzzles which are taken from Hackerrank.
8	Dr.N.Sharmili	21021-22 (III-I)	Compiler Design	Personal Blog https://logintosharmi.blogspot.com have been developed for sharing material, sites related to programming related to PP. (https://logintosharmi.blogspot.com/search/label/Gate)	Gate problems related to CD are discussed in class. This activity is taken place in the class and all students are also asked to do practice some more problems, they worked in the class.	Active learning by the students which was helped in Competitive exams
9	Dr.N.Sharmili	21-22 (I-II)	Python Programming and Python Programming Lab	Personal Blog https://logintosharmi.blogspot.com have been developed for sharing material, sites related to programming related to PP. (https://logintosharmi.blogspot.com/2021/05/welcome-to-python-programming.html)	PP Theory and Lab are discussed with the help of IDLE, PyCharm and Python Tutor. This activity is taken place in the class and all students are also asked to solve different C problems beyond the syllabus with the help of IDLE, PyCharm and Python Tutor in Lab.	Students engaged both inside and outside of the classroom and actively learn the concepts of PP through problem solving and attempted to solve Programming Puzzles which are taken from Hacker rank.



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Academic year:2020-21

S. No.	Faculty Name	Year/Sem	Course Name	Innovation Used	Methodology Adopted	Outcome
1	Dr. N. B. Venkateswarlu	2020-21 (I-II)	Programming	Program Visualization was provided to the students through python tutor for Data Structures.	The program run was shown directly to the students and the data structures used were also described.	Students obtained extra knowledge of the data structures and enthusiastically participated in the discussion.
2	Dr. N. B. Venkateswarlu	2020-21 (I-I)	Programming	Program Visualization was provided to the students through python tutor for C Programming.	The program run was shown directly to the students and the data structures used were also described.	Students obtained extra knowledge of the data structures and enthusiastically participated in the discussion..
3	Dr. M. Bhanu Sridhar	2020-21 (IV-II)	Artificial Neural Networks	Information about AI/ANN tools used (http://mantermbs.blogspot.com/2021/04/new-ai-tool-tracks-evolution-of-covid.html)	Description about artificial Intelligence automation was provided.	Students viewed the post with interest and searched for AI automation tools.
4	Dr. N. Sharmili	2020-21 (I-I)	PPSC and PPSC lab	Personal Blog https://logintosharmi.blogspot.com have been developed for sharing material, sites related to programming related to PPSC. (https://logintosharmi.blogspot.com/2021/02/ist-unit-of-c.html)	PPSC Theory and Lab are discussed with the help of DevC++ and Python Tutor. This activity is taken place in the class and all students are also asked to solve different C problems beyond the syllabus with the help of Dev C++ and Python Tutor in Lab.	Students engaged both inside and outside of the classroom and actively learn the concepts of PPSC through problem solving and attempted to solve Programming Puzzles which are taken from Hacker rank.
5	Dr.N.Sharmili	2020-21 (I-II)	PP and PP Lab	Personal Blog https://logintosharmi.blogspot.com have been developed for sharing material, sites related to programming related to PP. (https://logintosharmi.blogspot.com/2021/05/welcome-to-python-programming.html)	PP Theory and Lab are discussed with the help of IDLE, PyCharm and Python Tutor. This activity is taken place in the class and all students are also asked to solve different C problems beyond the syllabus with the help of IDLE, PyCharm and Python Tutor in Lab.	Students engaged both inside and outside of the classroom and actively learn the concepts of PP through problem solving and attempted to solve Programming Puzzles which are taken from Hacker rank.

6	Dr.N.Sharmili	2020-21 (III-I)	CompilerDesign	Personal Blog https://logintosharmi.blogspot.com have been developed for sharing material, sites related to programming related to PP. (https://logintosharmi.blogspot.com/search/label/Gate)	Gate problems related to CD are discussed in class. This activity is taken place in the class and all students are also asked to do practice some more problems, they worked in the class.	Active learning by the students which was helped in getting placements
7	Mrs.K.Suneetha	2020-21 (III-I)	Unix Programming	Online Unix terminal provided by AWS	The UNIX commands run was shown directly to the students.	Active learning by the students which was helped in understanding unix environment .
8	Mr.A.UdayaKumar	2020-21 (III-I)	Unix Programming	Online Unix terminal provided by AWS	The UNIX commands run was shown directly to the students.	Active learning by the students which was helped in understanding unix environment .



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Academic Year:2019-20

S. No.	Faculty Name	Year/Sem	Course Name	Innovation Used	Methodology Adopted	Outcome
1	Dr. M. Bhanu Sridhar	2019-20 (IV-1)	Edge Computing	Personal Blog https://mantermbs.blogspot.com have been developed for the active learning of Cloud computing. https://mantermbs.blogspot.com/2019/07/how-edge-computing-is-driving-new-era.html	Continuously updating the personal blog related to Cloud Computing, Software testing, Artificial Neural Networks and other information.	Active learning by the students and achieved better performance.
2	Dr. M. Bhanu Sridhar	2019-20 (III-II)	Data Flow testing	Personal Blog https://mantermbs.blogspot.com have been developed for the active learning of Data flow Testing. https://mantermbs.blogspot.com/2019/12/what-is-data-flow-testing-application.html	Extra data was made available through personal blog.	Active learning by the students and achieved better performance.