



NEW PRINCE SHRI BHAVANI ARTS AND SCIENCE COLLEGE

(An ISO 9001:2015 Certified Institution & Affiliated To University Of Madras)

Patel road, Medavakkam, Chennai – 600100.

DEPARTMENT OF COMPUTER SCIENCE [2020-2021] – VII Issue



ABOUT CS HAPPEN BYTES

With great pleasure, we present the 2020-2021 issue of CS Happen Bytes, the yearly newsletter of New Prince Shri Bhavani Arts and Science College's Department of Computer Science. The goal of CS Happen Bytes is to keep you informed about the department of computer science's fascinating new innovations and continuing projects. The current newsletter covers our students' activities as well as staff accomplishments throughout the past year. The goal of CS Bytes is to convey information about our department and college, and we hope that readers will find the issues to be both educational and useful. We appreciate the contributions of our department's faculty and students, and we welcome any recommendations or feedback. We can be reached at newsletter@newprincearts.edu.in.

HOD'S MESSAGE

Dr. V. UmaDevi

Greetings from the Department of Computer Science.

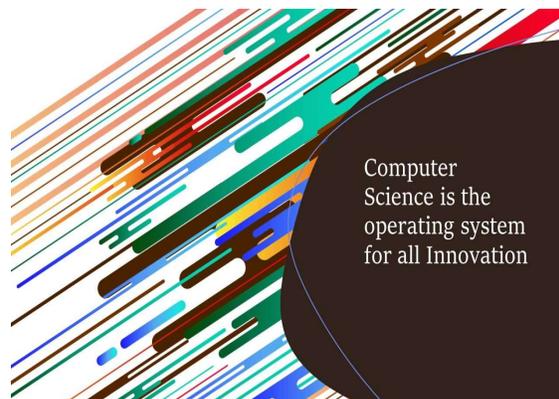


I am delighted to publish the seventh issue of the Computer Science Department's newsletter "CS Happen Bytes." I hope that this newsletter provides information on the department's academic and co-curricular activities for the academic year 2020-2021. I am pleased to

observe that the department organises symposiums, development programmes, intra-departmental events, and seminars to transmit information to its employees and students. Due to the pandemic situation (Covid 19), all events are held virtually. I'd like to thank all the faculty members and students who has contributed to this newsletter. I wish everyone in the Department the best of luck in their pursuits.

What's Inside?

- ☞ Department Vision and Mission
- ☞ Faculty Awards and Recognitions
- ☞ Events Organized
 - TECHNIX 2k'21
 - FDP
 - Workshops
 - Seminars
 - Alumni Talk
 - Intra-Departmental Competitions
 - Add on Courses
- ☞ Journal/ Book Publications by Faculty Members
- ☞ Workshop and Conferences participated by Faculty Members
- ☞ Students Achievements



Computer
Science is the
operating system
for all Innovation

ABOUT THE DEPARTMENT

- The Department of Computer Science was established in the year of 1999 with UG program, B.Sc. Computer Science to nurture fresh talent in the field of Information Technology. To accomplish the need of IT sector, we started BCA in 2000. The Department was upgraded into a post graduate stream in the year of 2003. It is committed to provide a supportive, friendly, and challenging learning environment and to impart quality education in the sub fields of IT, a field growing leaps and bounds.
- The Department of Computer Science was established in the year of 1999 with UG program, B.Sc. Computer Science to nurture fresh talent in the field of Information Technology. To accomplish the need of IT sector, we started BCA in 2000. The Department was upgraded into a post graduate stream in the year of 2003. It is committed to provide a supportive, friendly and challenging learning environment and to impart quality education in the sub fields of IT, a field growing leaps and bounds.



VISION

To be in the frontier of Computer science and applications to produce globally competent graduates and professionals with innovative ideas, skills, and moral values to build a vibrant nation.



MISSION

To provide quality education to meet the need of profession and society.

Provide a learning ambience to enhance innovations, problem solving skills, leadership qualities, team-spirit and ethical responsibilities.

Establish Industry Institute Interaction program to enhance the entrepreneurship skills

Provide exposure of latest tools and technologies in the area of information technology.

To inculcate value-based, socially committed professionalism to the cause of holistic development of students and society.

AWARD AND RECOGNITION

Our college is proud of distinguished faculty members who have brought laurels to the institute by their exemplary service and achievements.



- Dr. V. Uma Devi has received “International award of Academic Excellence” from International Institute of Organized Research for the year 2020-2021.
- Dr. V. Uma Devi & Mrs.P.Calista Bebe have Received “Award of Honour and Recognition” – Participating in the event registered in the Indian Book of Records and Asia Book of Records from ESN publication.
- Mrs.P.Calista Bebe has received “Young Researcher” Award from International Institute of Organized Research for the year 2020-2021.
- Dr.T.Nathiya has received “International award of Academic Excellence” from International Institute of Organized Research for the year 2020-2021.
- Dr.V.Poornima has received “International award of Academic Excellence” from International Institute of Organized Research for the year 2020-2021.
- Mrs.R.Kala has received “International award of Academic Excellence” from International Institute of Organized Research for the year 2020-2021.
- Dr.V.Poornima was awarded with Doctorate Degree on August 2020.

ASSOCIATION AND ACTIVITIES

TECHNOSIS

Association of Computer Science organized many virtual events like Technical Symposium, Faculty Development Programs, Workshops, Seminars, and Intra-Departmental Events for the benefit of students and faculty members to acquire knowledge in the latest technologies and career development. Details of some important events during the academic year 2020-2021:

TECHNIK – 2K'21

On February 27, 2021, the Department of Computer Science will organize a national technical virtual conference called "TECHNIX-2K'21." This Symposium broadens participants' technical knowledge while also providing them to showcase their abilities by utilizing the online Platform. It assists participants in identifying and comprehending the numerous parts of the computer science and information technology area, allowing them to expand their variety and charisma in various aspects of their development. The major goal of "TECHNIX-2K'21" is to foster student creativity by addressing as many current trends and issues in computer science as possible. The symposium drew about 170 students from a variety of colleges, making it a huge success.



FACULTY DEVELOPMENT PROGRAM

Two days FDP on “Current Trends in IT” was held on 26th & 27th June 2020.

NEW PRINCE
Shri Bhavani Arts & Science College
Co-Educational & Affiliated to the University of Madras
An ISO 9001 : 2015 Certified Institution
First Road, Medavakkam, Chennai - 600 026
www.newprince.edu.in | Ph: 244 2277 / 208

Dept. of Computer Science & IQAC *Presents Two Days*

FACULTY DEVELOPMENT WEBINAR ON CURRENT TRENDS IN IT

Topic: **Green IT: Latest Trends and Advancements**
26th June 2020 @10 am to 11 am

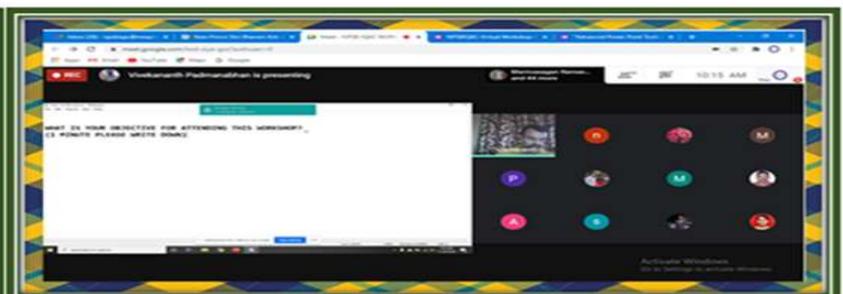
Topic: **Current Trend in Big Data and Technology Stack**
27th June 2020 @11 am to 12 noon

Resource Persons:

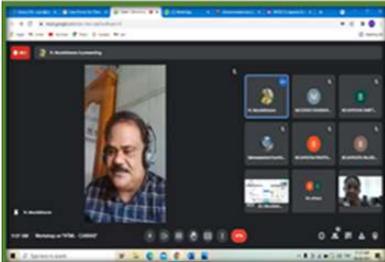
- Dr. Vivekananth Padmanabhan**, Senior Lecturer / Dean - ICT, SSAT University, Karpalis, Siganda
- Mr. Srinivasan Kannan**, Sr.Technology Architect/Delivery Manager, Sensible Software Solutions, Chennai

Co-ordinator: **Dr. V. SIVADEVI** Principal

Chairman: **Dr. ELOGANATHAN** | Vice Chairman: **Mr. L. NAVIEN PRASAD** | Director Admin: **Dr. M.PRABAKARAN** | Director Academic: **Dr. V. KARUNANTHI**



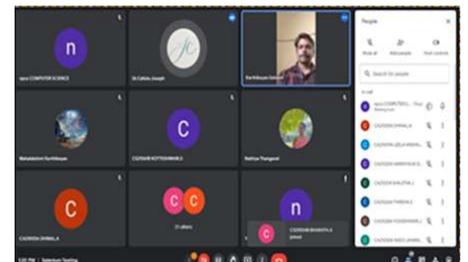
WORKSHOPS



One day online Skill development workshop “HTML CANVAS ” presented by Mr. N. Muralidharan, PGT, Mathematics held on 29th August 2020.

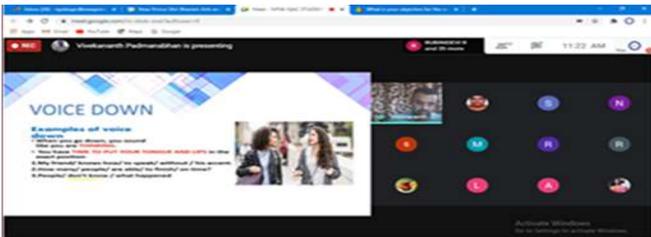


One day online Skill enhancing workshop on “Linux made Easy ” presented by Mr. Ambicapathy palanivelu, unix Team Lead Fiserv Technology Solutions Nebraska State , USA, held on 12th September



One day online National level workshop on “Selenium Automation Testing” presented by Mr.S.Karthikeyan Lead Quality Assurance Engineer, BNY Mellon, Chennai, held on 7th November 2020.

WEBINARS



One day International Virtual Seminar on “**Cyber Awareness; Strategies For Safeguarding Ourselves from Cybercrimes and CyberAttacks**” hosted by Dr.Vivekananth Padmanabhan, Dean-ICT/Senior Lecturer, Certified Computer Hacking Forensics

One day skill Development Webinar on “Shaping Students Career” presented by S.Madhusudan, Head Learning and Development, Mentor Learning Services held on 10th October 2020.



One day Webinar on “Dot Net technologies ” presented by Dr.K.Dharmarajan,Associate Professor & Research Supervisor, Department of Information Technology, Vels Institute of Science,Technology & Advanced Studies (VISTAS) held on 20th March 2020.

INTRA DEPARTMENTAL COMPETITIONS



Intra-Departmental online Quiz contest “CS - MASTER MINDS’21”, held on 12th November 2020.

Intra-Departmental Competitions, Paper Presentation and Poster Expo “TECHNOSHARE’21” held on 1st March 2021.

ADD ON COURSE – VIRTUAL PLATFORM



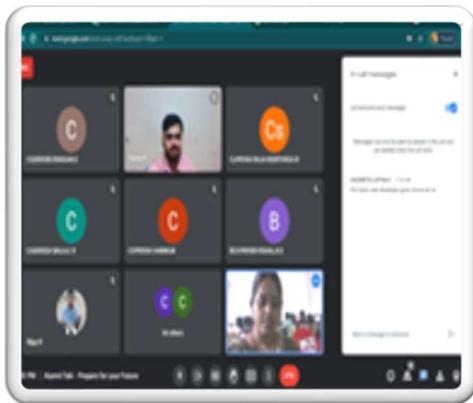
☞ “PYTHON PROGRAMMING” held from 2nd to 13th November, hosted by “NIIT Private Limited” for final year UG and PG students.

☞ “PHP WEB DEVELOPMENT” held from 14th to 25th September, hosted by “Aadhityaa Infomedia Technologies” for second year UG and PG students.

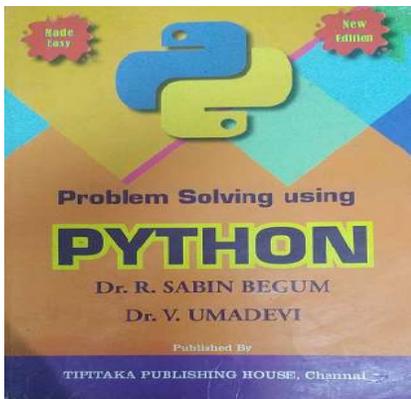
☞ “FLASH” held from 7th to 18th December 2020, hosted by “Aadhityaa Infomedia Technologies” for First year UG and PG students.

ALUMNI TALK

Alumni talk on “Prepare for future” for students delivered by Mr.R.Rahul,MBA., Motivational speaker held on 8th August 2020.



BOOK PUBLICATION



- Dr. V. Uma Devi, has published a book on “Programming in c” published by Selvam Publications on March 2020.ISBN No: 978-81-933878-3-2.
- Dr. V. Uma Devi, has published a book on “Visual Programming” published Tipitaka Publishing House on August 2020.ISBN No 978-93-5406-951-2
- Dr. V. Uma Devi, has published a book on “Problem solving Using Phyton” published Tipitaka Publishing House on August 2020.ISBN No 978-81-89847-447-9

PUBLICATIONS BY FACULTY MEMBERS

- Dr. V. Uma Devi, has published a paper on “Hybrid Encryption Algorithm for Cyber Security using AES and DES” in Journal of Information and Computational Science(JICS) in the year 2020
- Mrs.A.Sivarani, has published a paper on “Water Management Using IOT” in Science Direct through proceedings on March 2020.
- Mrs.P.Calista Bebe, has published a paper on “Use of AI Based “CHATBOTS” for Providing Health Related Information” in European Journal of Molecular & Clinical Medicine(EJMC) in the year 2020.
- Mrs.P.Calista Bebe, has published a paper on “Secured implementation of steganography in multicloud” in Science Direct through proceedings on February 2020.
- Mrs.P.CalistaBebe has published a paper on “Bloom hash probabilistic data Structure and Benaloh Cryptosystem for secured data storage and access control in cloud” Materials Today Proceedings in February 2021.
- Mrs.P.Calista Bebe, has published a paper on “An Investigation Study on Secured Data Storage and Access Control in Cloud Environment” in Intelligent Computing and Innovation on Data Science in November 2021.
- Mrs.K.Maheswari, has published a paper on “Protection Armed Forces Using Blockchains: A Position Of The Talent Analysis” in Parishodh Journal on January 2020.
- Mrs.S.Sivakamasundari & Mrs.A.Sivarani, has published a paper on “Survey on Smart Agriculture Based on Cloud Computing and Internet of Things” in Parishodh Journal on January 2020.
- Mrs.S.Sivakamasundari, has published a paper on “Adaptive Discriminant Quadratic Boosting Classification Based Radix Hash Data Storage for Context Aware Cloud IoT Services” in European Journal of Molecular & Clinical Medicine(EJMC) in the year 2020.
- Mrs.S.Janet Grace Susila,has published a paper on “A Realistic Hotel Menu Ordering System Based On Virtual Reality” in EuropeanJournal ofMolecular & ClinicalMedicine(EJMC)in the year 2020.
- Mrs. I. Poonkody, has published a paper on “Human Annotator For Imbalanced Data” in European Journal of Molecular & Clinical Medicine(EJMC) in the year 2020
- Mrs.I.Poonkody & Dr.C.Meenakshi, has published a paper on “Role Of Machine Learning Algorithms In Predicting Lung Cancer” in Parishodh Journal on January 2020.
- Dr.V.Poornima, has published a paper on “A Survey on Business Intelligences Mining” in Journal of Information and Computational Science(JICS) in the year 2020.
- Dr.V.Poornima, has published a paper on “Performance evaluation of triumvirate clustering algorithms for heart disease prediction” in European Journal of Molecular & Clinical Medicine(EJMC) in the year 2020.
- Dr.V.Poornima, has published a paper on “Pest Free Groundnut using ML Techniques” in European Journal of Molecular & Clinical Medicine(EJMC) in the year 2020.
- Dr.V.Poornima, has published a paper on “A new improved machine learning model for identifying Iris flower Species using Naïve Bayes with smoothing techniques” in Parishodh Journal on January 2020.
- Dr.V.Poornima, has published a paper on “An Empirical study of Heart Disease Prediction System Using Various Machine Learning Classification Algorithms” in Advances in Intelligent Systems and computing in the year 2021.
- Dr.R.Akilan, has published a paper on “Voice Controlled Dc Based Solar Powered Smart Home” in European Journal of Molecular & Clinical Medicine(EJMC) in the year 2020.
- Dr. S.Saranya, has published a paper on “HDES: Hybrid Encryption Algorithm for Cyber Security using AES and DES” in Parishodh Journal on January 2020.
- Mrs.S.Elavarasi, has published a paper on “ Automatic Robot Processing Using Speech Recognition System” in Parishodh Journal on January 2020.
- Dr.T. Nathiya and Dr.V.Umadevi, has published a paper on “IDSSECIOT Algorithm Using for Cloud Based Detecting Network Intrusion System inIoT Environment” in Parishodh Journal on January 2020.
- Mrs.R.Kala, has published a paper on “Web based Prepaid Energy Meter with theft control” in European Journal of Molecular & Clinical Medicine(EJMC) in the year 2020.
- Dr.B.Mahalakshmi, has published a paper on “IoT Based Fire Fighting Robot” in European Journal of Molecular & Clinical Medicine(EJMC) in the year 2020.
- Dr.B.Mahalakshmi, has published a paper on “ An Approach towards soil Erosion Monitoring system using satellite images Through dataminnng and pattern minnng techniques” in Journal of critical reviews in the year 2020.
- Dr.R.Alarmelu Mangai has Published a paper on “Pregnancy Women Fetal Heart Rate and Kicking monitoring using embedded system” in European Journal of Molecular & Clinical Medicine(EJMC) in the year 2020

WORKSHOP AND CONFERENCES PARTICIPATED BY FACULTY MEMBERS

FACULTY DEVELOPMENT PROGRAM				
From	To	Faculty Name	Title	Venue
28-05-2020	02-06-2020	P.Calista Bebe	Emerging Technologies in computer Science	Dr.MGR Educational and Research Institute
02-06-2020	06-06-2020	P.Calista Bebe	Skilling Teachers for online Education	UKS TARSADIA University
05-06-2020	09-06-2020	A.Sivarani S.Sivakamasundari	Emerging Research Areas in Engineering	SRM Institute of Science and Technology
22-06-2020	28-06-2020	P.Calista Bebe	Online Training on Python-3.4.3	Syed ammal Engineering College
22-06-2020	28-06-2020	I.Poonkody, Dr.S.Elavarasi A.Janet Grace Susila, Dr.R.Akilan Dr.B.Mahalakshmi, R.Kala	Hands on training on ICT Tools for Effective Teaching	Sri Kanyaka Parameswari Arts and Science college for Women
01-07-2020	05-07-2020	P.Calista Bebe Dr.C.Meenakshi A.Janet Grace Susila Dr.S.Saranya Dr.T.Nathiya Dr.R.Akilan Dr.G.G.Goklam Dr.B.Mahalakshmi R.Kala	ICT Based Teaching and Learning Process	Rookie College of Polytechnic
01-07-2020	06-07-2020	P.Calista Bebe	PHP and MySQL	Syed ammal Engineering College
02-07-2020	08-07-2020	P.Calista Bebe	Moodle Learning Management System	Government Arts and Science college
13-07-2020	20-07-2020	P.Calista Bebe	Essential for blended Learning	Dr.MGR Educational and Research Institute
17-07-2020	21-07-2020	A.Sivarani	Machine Learning and its Applications using Python	Madanapalle Institute of Technology and Science
22-07-2020	28-07-2020	Dr.S.Elavarasi	Recent Trends in Computer Science	Thiruvalluvar University
17-08-2020	22-08-2020	P.Calista Bebe	Cybersecurity Essentials	ICT Academy
27-01-2021	28-01-2021	A.Sivarani, K.Maheshwari , S.Sivakamasundari, Dr.C.Meenakshi A.Janet Grace Susila, Dr.T.Nathiya Dr.R.Alarmelu Mangai	Assesment & Tools	SRM Institute of Science and Technology
01-02-2021	04-02-2021	A.Sivarani Dr.S.Elavarasi Dr.G.G.Goklam	Current Trends and Technology in IT	Guru nanak College
16-02-2021	20-02-2021	Dr.B.Mahalakshmi	Fundamentals of Machine Learning	ICT Academy
22-02-2021	27-02-2021	I.Poonkody Dr.G.G.Goklam	Introduction To Angular JS	ICT Academy
08-03-2021	10-03-2021	I.Poonkody	Transdisciplinary Research	Solent University
08-03-2021	12-03-2021	V.Poornima	Data Science Using R	ICT Academy
29-03-2021	03-04-2021	P.Calista Bebe	Introduction to Python Programming	ICT Academy
29-03-2021	05-04-2021	P.Calista Bebe K.Maheshwari S.Sivakamasundari	Recent Trends in Cloud Computing	Easwari Engineering College
17-05-2021	21-05-2021	P.Calista Bebe	ICT Tools for Faculty	ICT Academy

ACTIVITIES PERFORMED BY FACULTY MEMBERS

All our faculty members had attended Webinars, Conference and Training programs conducted by various colleges on the emerging technologies in Computer Science.

Conference proceedings in the National Level Conference on “Recent Trends In Applied Mathematics” – 2020.

- Mrs.A.Sivarani - Mathematical Modeling of an Integrated Inventory Model with Two-Level Trade Credit and Random Defectiveness
- Mrs.S.Sivakamasundari - A Characterization of Edge Graceful Labeling of Complement of Cayley Digraph
- Mrs.P.Calista Bebe - Two Layered Model of Blood Flow through a Stenosed artery with Slip velocity: Effects of variable viscosity
- Mrs. I. Poonkody - Transient analysis of a Thermo- Electric-Elastic Plate by using Hybrid Numerical Method
- Dr.V.Poornima - Bipolar Multi-Fuzzy Sub algebra of BG – Algebra
- Dr.B.Mahalakshmi - Unsteady Oscillatory flow of blood through a Composite Stenosed Artery with Permeable Wall
- Dr.G.G.Gokilam - On Almost Nano Pre-Continuous Functions in Nano Topological Spaces
- Dr.T.Nathiya - Fixed Point Theorems for Compatible Mappings Of Type (E) in - Fuzzy Metric Spaces
- Mrs. R.Kala - Dufour Effect on Unsteady Free Convective Walter’s Memory Flow with Constant Suction and Heat Sink through Porous Medium
- Dr.R.Alarmelu Mangai - Multiple Domination in Bipolar Fuzzy Graphs
- Mrs.K.Maheswari - A Hybrid Artificial Neural Network Approach for Forecasting Rainfall in Chennai City
- Mrs.S. Janet Grace -On Increasing N - G^*B_w Closed Sets in N -Topological Ordered Spaces
- Dr.S.Elavarasi - An Application of Intuitionistic Fuzzy Soft Matrix in Decision Making Problem
- Dr.R.Akilan - Applications of Nano Topological Properties in Filtering the Image

STUDENTS ACHIEVEMENT

Our college students got honours for participating in numerous online events such as quizzes, debugging, and networking sponsored by several institutions.

