



Seshadripuram Educational Trust

SESHADRIPURAM COLLEGE

27, Nagappa Street, **Seshadripuram**, Bengaluru – 560 020

Affiliated to Bengaluru City University

NAAC Accredited 'A' Grade in 3rd Cycle | ISO 9001:2015 Certified Institution



SCIENCE WORLD 2022-2023

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From the PRINCIPAL'S DESK



I am extremely happy that the new issue of Science World is ready for release. The Department of Computer Science and the BCA course which they offer have done well in the last year, in terms of increase in intake, the activities conducted, the results and the placements. The BCA course and students are carving out a distinct identity which is to be appreciated and nurtured. One important element of this identity is giving students the platform and the encouragement to go beyond the university curriculum and explore new developments in their chosen field of study.

I congratulate Smt. Rajeswari V. and other members of the Editorial Board on their excellent effort. I am also happy that this issue, like the previous one, is being brought out largely as an e-journal hosted on the college website. I am confident that Science World will continue to grow with sustained excellence in the coming years.

Dr. B. G Bhaskara
Principal





EDITORIAL DESK

Rajeswari V.
Editor



The editorial task comes with challenges and putting together Science World - 2022 wasn't an easy one. But things became easy because of the trust and guidance of our beloved Principal Dr. B.G.Bhaskara and the continued support of Prof Veena R, Head of the Department of Computer Science. The magazine has recorded department activities such as Workshops / Seminars / Guest Lectures/Outreach activities/Alumni engagement organized and the value added and certificate courses conducted throughout the academic year.

Under the banner of Science Forum, the department organizes an Intercollege technical IT Fest INCOGNITO, which aims at creating an opportunity to network and collaborate with students from other colleges as well as developing organizational skills among the Forum members. I am happy to see the articles that have come from our students. Through all these initiatives, the Department Computer Science aims to develop critical, analytical and problem solving skills of our students for a smooth transition from academic to real-life work environment.

Last but not least I thank our esteemed management for giving support and encouragement & free hand in this endeavor. I truly hope that the pages that follow will make an interesting read.



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REPORT SECTION

DEPARTMENT ACTIVITIES

Orientation program on Machine Learning with Advanced Python Programming Orientation Program On “Hardware and Networking” for 4th Semester BCA Students

Date :10-06-2022

Trainer : Mr. Lohith Kumar G, CEO, GLOVISH TECHNOLOGIES LLP



The Department of Computer Science, Seshadripuram College, Bangalore in association with “GLOVISH TECHNOLOGIES LLP” has conducted orientation program on “Machine Learning with Advanced Python Programming” for final year BCA students to gain progress and enrich the knowledge towards programming language.

The trainer briefed about the course. M L is a type of artificial intelligence that extract patterns out of raw data by using an algorithm or method. Python is interpreted high-level programming language. We can use Python to develop Web applications, desktop GUI applications and many more. The Course is aimed at students in getting hand-on experience in area of Core programming. In all, 100 students enrolled for the program and There was good response from the students which gained over all rating of program to be excellent.

Generally, hardware networking course is to understand the components of the computer desktop and assembling them. Once you get into this skill you can configure your own desktop with high configuration. Hands-on computer hardware course offers live projects, practical examples, and case studies to kick start your computer hardware and networking career. The Course designed for a duration of 40 hours, aimed at students in getting hand-on experience. In all, 100 students enrolled for the program and There was good response from the students which gained over all rating of program to be excellent.

“Budding Bonds”- Team Building Activities

Date : 01-08-2022

The Team building activities for the students was planned on 01.08.2022 at 10:30 am.. All the students of I Semester BCA were assembled in Room 325 and the activities started with a small welcome address by Prof. Veena. R, HOD, Computer Science. The students started the session with playing few games in the beginning which was fun for them and entertaining. The activities were planned with time limit. Some of the activities planned are Human Knot, transferring pen to pen stand at a distance without touching in hand and Pyramid Forming with cups.



All the activities planned for students will be helpful in Team bonding; also these activities improve workplace projects that involve teamwork. After completing team building activities together, students better understand each other's strengths, weaknesses, and interests. This understanding helps them even better together on future progress. Certain activities can be designed to improve communication and limit conflict in a group. Collaboration within a group can help solve difficult problems. Brainstorming is a good opportunity for the team to exchange ideas and come up with creative ways of doing things. By working together, teams can find the solutions that work best.



Guest Lecture on “Revolutionary projects Using AI”

Date : 04-08-2022



The Department of Computer Science organized a guest lecture on “Revolutionary projects Using AI” for the students of BCA on 04/08/2022.

The resource persons for the workshop are Dr.Rama Satish K.V, Associate Professor, Department of AI and ML, RNSIT, Bengaluru.

In his lecture he gave an introduction about Artificial intelligence and its future applications. He also focused on machine learning and deep learning. Its applications in various field. He also gave an insight related to the

projects which students can do in the future. Through his guest lecture the students gained a lot of insight artificial intelligence, machine learning and deep learning.

As per the feedback received from the participants it was very good learning experience, the lecture helped them in understanding about cyber security, hacking and its purpose.

Preplacement Training

Dates: 09-11-2022, 10-11-2022 and 12-11-2022

3 days preplacement Training on C, C++ and DS for III year BCA students by Mr.Ashank, Glovish Technology was conducted on 09/11/2022, 10/11/2022 and 12/11/2022. The students were trained in technical skills.



Inspire and Enlight

Date : 26/11/2022

Department of computer Science in association with SCOSA, Seshadripuram College, Bengaluru had organized Inspire and Enlight Program for 5 th Semester BCA Students to know about the Industry requirement and necessities towards the placement process. The session was well received by the students. The session was carried out successfully by BCA alumni students Afrin, Manikandan, Kishore V, Deepthi S N, Supriya, Manoj Gowda, T Lokesh Gowda, Shivender Kumar who work in different IT industry- Infosys, TCS, Wipro, Deloitte, DXC Technology. They shared their experience of clearing different rounds of interview and current working experience and situation in industry. There was a good response from the students which gained overall rating of the program to be excellent.



Awareness Talk on Cyber Crime

Date : 23-12-2022



An awareness talks on “Cyber Crime” was organised by the Department of Computer Science in association with Karnataka State Police on 23/12/2022 in auditorium for the students of all streams.

Resource person for the programme – Mr.Shivanand and he gave an insight to cybercrimes and their consequences. He explained how the hackers can hack our devices and crack our passwords. He explained how to choose a strong password and how to avoid being victims of cybercrime. He explained how to complain and where to complain if there is a cybercrime.

One-day workshop on “Implementation of UUCMS, NAD and ABC”

Date : 15/02/2023

A one-day workshop on “Implementation of UUCMS, NAD and ABC” for all principals of affiliated colleges in association with Bengaluru City University and Government of

Karnataka was organised on 15/02/2023. Chief guest for the workshop was Prof.Lingaraja Gandhi, Vice Chancellor, Bengaluru City University, Guest of honour was Sri C N Sridhar, KAS(Senior Scale), Registrar, Bengaluru City University and Prof V. Lokesh, Registrar(Evaluation), Bengaluru City University. Resource persons were Dr. Bhagyavana S. Mudigoudra, Special Officer, E-Governance and State Nodal Officer, AISHE, Director, PMU (UUCMS), Department of Higher Education, GOK, Bengaluru and Sri Pramod, Operation Manager (UUCMS), Department of Higher Education, GOK, Bengaluru.



Add-On Course - Academic Year : 2021-2022

COURSE : IOT in .Net MVC (ODD SEM)/Machine Learning Using Advance PYTHON and Java Full Stack Developer for VI semester BCA students

The present and future of automation is completely focusing on internet on things. The discussion on internet of things is in all over planes not only technology enterprises but also in colleges and hubs. The term internet of things is in a discussion from decade and came to lime light for present technology implementation. This concept not only depends on how to work but also involves in the real time working environment. But of course there are lots of complications building internet of things. Sticking to the basics of automation makes easier to build internet of things architecture.



Hence add on courses were offered for final year BCA students. The Course was designed for duration of 60 hours, aimed at students getting hand-on experience in areas of IOT in real time application. The course was designed to meet requirement of Corporate from across domains to meet Corporate World. In all, 68 students enrolled for the course **IOT in .Net MVC (ODD SEM)/Machine Learning Using Advance PYTHON** and 100 students have enrolled for the course **Java Full Stack Developer for VI semester BCA students** and learned to create a wide range of applications in platforms of IOT and full stack development. The Course was successfully completed and the certificates were also distributed to the students

Certificate course on CCNA

The Department of Computer Science had conducted 40 hours of **Certification course on CCNA** for BCA students by JKH GLOBAL SOLUTION. The initiative to conduct the Certification Course on CCNA was to enhance employability and professional competence of students. 58 students participated in the CCNA course. The certification course was conducted between July 2022 to September 2022. CCNA course was able to bridge the gap between academics and industry requirements.



Catalyst: Aptitude and Interview Skill classes by Alumni



The above is the training programme on Interview skills by alumni students to interested Second and final year students of BCA. The class is conducted on every Saturday between 11:30 am to 2:30 pm. The resource persons were Mr. Shivendar and Mr. Manoj, both of them are our own alumni students.



E-Waste Collection Drive Dates: 01-06-2023 and 03-06-2023



An E-waste Collection Drive by the Department of Computer Science in association with Eco-Mithra was conducted in the neighbourhood community and in the college on 01/06/2023 and E-waste is collected on 03/06/2023 by our student volunteers.

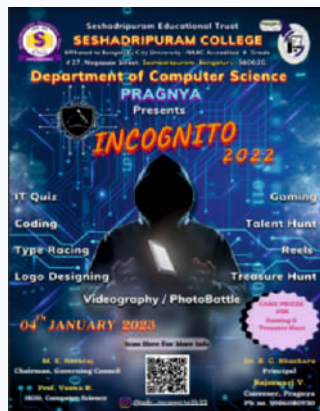
PRAGNYA – SCIENCE FORUM ACTIVITIES

“Incognito 2022”

An intercollege IT fest “Incognito 2022” was conducted on 04/01/2023. Chief Guest for the inauguration function were Dr. Hanumanthappa R, Professor and Chairman, Department of Computer Science and Applications, Bangalore University and Mr. Shashank Prabhakar, Director, Pace Wisdom Solutions Private Limited. The Fest was formally inaugurated by Dr. M. Hanumanthappa and all the other dignitaries. Registration started at 8:00 am. After the inauguration all technical and non-technical events were conducted in various venues and at scheduled timings. This year's attraction was the Scary House set up by our students and the flash mob performance by the students. Valedictory programme was conducted in the evening and our beloved Principal Dr. B. G. Bhaskara distributed prizes to all prize winners and overall championship trophy. He distributed participation certificates to all the students who had actively participated in various competitions of the Fest.



The following are the list of events. 343 students from more than 35 colleges around Bangalore had participated in the event.



FACULTY ACHIEVEMENTS

Paper Publications

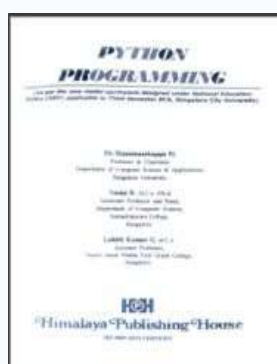
Sl. No	Name of the faculty	Year	Title of the paper
1	Veena R	2021 - 22	Classification & Errors Analysis of COVID – 19 using Supervised Machine Learning Algorithm and Visualization
2	Veena R	2022 - 23	Automatic Text Summarization – A Systematic Literature Review

Patent

Sl. No	Name of the faculty	Year	Title
1	Veena R	2022 - 23	A block chain model for developing innovative educational system

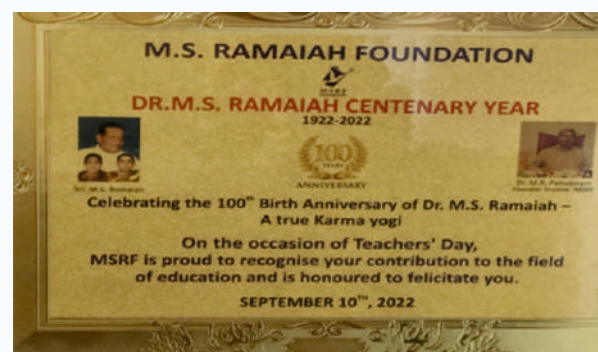
Books - Veena R

Text Book on Python Programming



Awards and Recognition

Veena R. was awarded on the occasion of Teacher's Day for her contribution to the field of education by M.S.Ramaiah Foundation



PLACEMENTS

Company Name	No. of students Placed	Names	CTC
Deloitte	2	Bhoomika K R Kavya S	3.82
Pace Wisdom	2	Abhishek V Koushik Dolui	3.5
Unisys	3	Adithya V Vidya Bai M Yuvraj S	3.07
Wipro	6	Priyanka C Kaniraj A Karthikeyan V Kushi Jindal Jayashree S Abhishek V	1.8/2.4
Resource Pro	1	Keerthana M Nagesh	3
TCS	2	Karthikeyan V Rakshith M	2
Teachnook	1	Keerthana M Nagesh	2.8
Intellipaath	1	Bhavani V	3.5





STUDENTS CORNER

IMPACT OF ARTIFICIAL INTELLIGENCE CURIOUS CASE OF CHATGPT



Geoffrey Hinton, the man who won '**Noble Prize for Computing**' who is known as '**The Godfather of AI**' has quit his position at Google after serving almost a decade at Google and he warns about the dangers from Artificial Intelligence. He told that, some of the dangers of AI chat bots were “quite scary”.

But as we know AI is there to assist **HUMANS** to make things faster like AI can provide useful information answer questions, help with creative writing, give advice, generate any images you want, it can engage in creative writing tasks, such as generating stories, poems, or even dialogues. With all these pros for the users, What so scary about the AI? Why this sudden concerns over the AI? To get an answer for this we need to understand How this AI works

HOW AI WORKS?

AI works by using special computer programs that are designed to think and learn like humans. These programs are called **ALGORITHMS**. They are like a set of instructions that tell the computer what to do. The **more data and information** the computer gets, the **smarter it becomes**.

Let's take the recent internet sensation '**ChatGPT**' as example. It's an AI Chatbot it will answer your questions as a human text, but you may think Google Search also does the same thing. **No**, ChatGPT is designed for generating text and answering questions, while Google is a search engine designed for searching the internet and delivering relevant results.

ChatGPT uses AI to understand and answer questions, it's like having conversations. On the other hand, Google is a tool to find information on the internet by searching through billions of web pages.

In simple words, AI means machine itself learns from the various data available in Wikipedia and other sources on internet. “So it's as if you had 10,000 people and whenever one person learned something, everybody automatically knew it. And that's how these chat bots can know so much more than any one person.”

WHAT IS DANGER IN AI THEN?

The first problem of AI is it is not regulated by any international body or any organization. All Top IT companies want this AI in their Software's and they are in hurry to achieve this. Many people think that “AI is becoming far more intelligent than it should be” which is right, and it can lead to 'Civilization Destruction'. So, with this AI being used in most of the organization which are smarter than a single human many show their concerns that AI will steal the jobs of the Workers in these companies, especially the software developers!

Himateju V.
I BCA A

Mathematical Theorem

Geometrical theorem of life cycle

Statement : An ideal life is the mixture of happiness and sorrow in equal ratios.

Data : life is a cycle having a sum of happiness and sorrow along with love.

Happiness = life + love

Sorrow = life-love

To prove : $1/2 \text{ happiness} + 1/2 \text{ sorrow} = \text{life}$



Proof: in the above diagram of the life cycle

Happiness = life + love = EQ.1

Sorrow = life - love = EQ.2

ADD EQ.1 and EQ.2

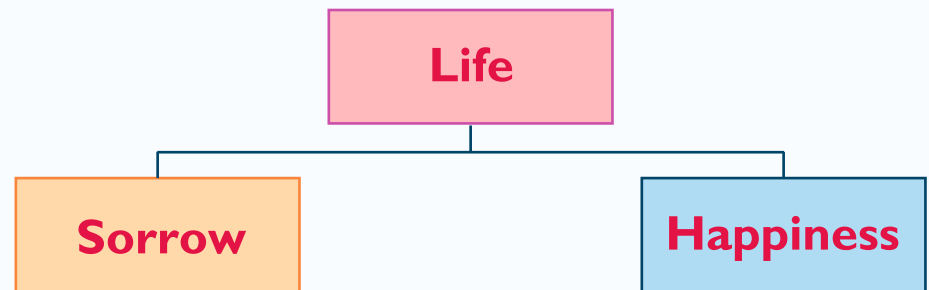
Happiness + sorrow = life + life

2life = happiness + sorrow

Life = happiness + sorrow

Therefore, $life = \frac{1}{2} \text{ happiness} + \frac{1}{2} \text{ sorrow}$

Hence, the life cycle is full of mixture of sorrow and happiness



Hamsa D.
I BCA B

Impact of Modern Technology



Life has changed for all of us, due to technology. It has become more convenient and complicated at the same time. Convenience, particularly, in the areas of communication and acquisition and exchange of information. It is much easier to communication with someone with the help of mobile services. Information can be easily found on their internet. Technology has helped us serving as a tool. Just because of technology the world has become a global village.

The impact of technology on medical field is worth a mention. We certainly can't dent the benefits of technology in healthcare. The quality of human life has increased, as well as the job opportunity in the health care field.

In general, technology has a very positive impact on education, auto-visual lesson and online tutoring has become very popular in recent time. Technology has encouraged the student to be more innovation and inquisitive.

The impact of technology is innumerable. As every coin has two faces, every aspect has both positive and negative effects. Modern technology has become the brainchild of man. So it is in his hands to use it wisely only when he is in need of it. Over usage and unruly usage can only prove dangerous to man himself.

When it comes to yourself and youngsters like us, I would like to state that parental monitoring is very important and essential. As we hear the instance of death due to selfies and blue whale tragedies, I personally urge restrain from excessive dependency on modern technology.

Hamsa D.
I BCA B



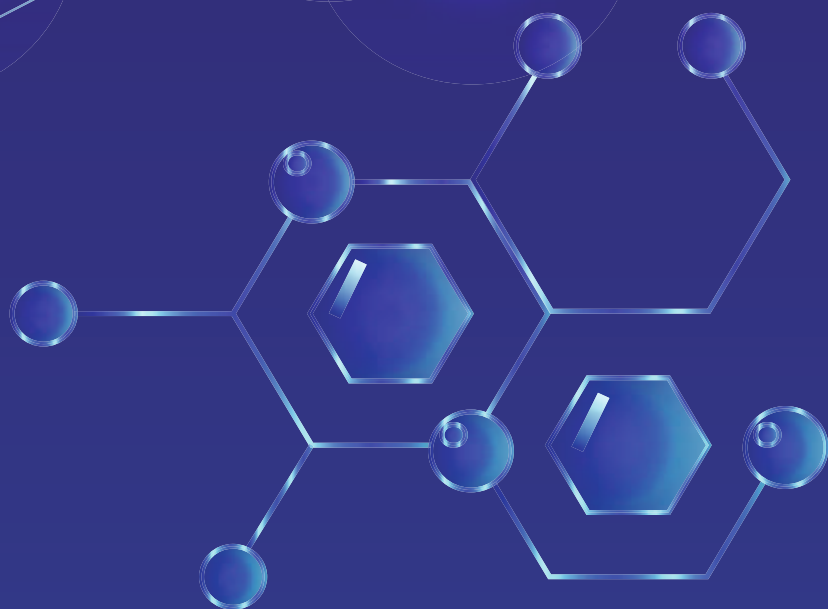
ART GALLERY





PHOTO GALLERY





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