

|| Om Shree Manjunathaya Namaha ||



MMK & SDM MAHILA MAHA VIDYALAYA

(Affiliated to University of Mysore, Accredited by NAAC with 'B' Grade
Krishnamurthypuram, Mysore



Our Vision : Empowerment of Women to face Global Challenges



June 2022

Department of Computer Science

Issue - 25



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Principal

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From the Principals' Desk...



Prof. Sainath Malligemadu
Principal

I'm fortunate to be typing a few words from the principal's desk on the eve of the 25th issue of GI-Talk's biannual newsletter published by the Computer Science Department. The vision of this college is to provide our students with different types of empowerment activities. The faculties of the computer science department successfully made their contribution to the college.

During the Covid period, students and faculty members participated in a range of virtual programs at international, national and state levels. As usual, the academic results of the BCA's outgoing students have secured 100% results and also many students have obtained placement in various multinational companies such as Wipro, TCS, Infosys etc. Teachers have published and presented a number of research papers. The GI Talk also been used by the students in presenting their talents. The support from parents and management was excellent. The commitment of the employees and students was also very positive.

The blessings of Lord Manjunatha swamy and Poojya Heggadeji have definitely got us sailing through the adversities and difficulties of the Covid period. Along with all staff and students praying for future activities. I would like to take this opportunity to thank everyone for their great commitment.

May Lord Manjunathaswamy bless us all.

"Knowing yourself is the beginning of all wisdom"- Aristotle

Message by HOD



Mrs. K.S. Sukrutha
HOD, Dept of Computer Science

It's a great pleasure to inform everyone that our College has completed its 30 years with the vision "Empowerment of Women to Build an Enlightened Society". In this moment, we are delighted to bring out the 25th issue of "GITalk" Bi-Annual News Letter which was introduced with the first batch of BCA students.

To visualize the vision among students, the department nurtures the students to enhance their IT skills along with value based and quality education. The imparted education, paves a path towards Higher Education

and Placements which in turn makes them to acquire good status in the Society. Thus, actualizing the vision of the college.

With these views, the department wishes to inform about the feathers added to the cap of SDM during the year 2020-21 awarded by various Ranking Agencies. The college is accredited by NAAC with CGPA of

2.48 at B Grade by the executive committee of NAAC. Also the department has got 92nd rank by India Today for the year 2021 out of 146 colleges. The college has also participated in NIRF ranking.

I applaud all the staff and students of the department especially the editorial team of GI Talk for their continues effort and support in bringing out this wonderful 25th issue of News Letter comprising of IT related articles, staff & students activities and achievements.

ROBOTIC PROCESS AUTOMATION (RPA)

What is robotic process automation?

Robotic process automation (RPA) is a software technology that makes it easy to build, deploy, and manage software robots that emulate human's actions interacting with digital systems and software. Just like people, software robots can do things like understand what is on a screen, complete the right keystrokes, navigate systems, identify and extract data, and perform a wide range of defined actions.



What are the business benefits of RPA?

Major cost savings. Greater resilience. Higher accuracy. Improved compliance. Boosted productivity. More value from personnel. Happier employees.

Why is RPA transformative?

RPA technology is changing how the world gets work done.

Software robots-instead of people-do repetitive and lower-value work like logging into applications and systems, moving files and folders, extracting, copying, and inserting data, filling in forms, and completing routine analyses and reports. Advanced robots can even perform



cognitive processes like interpreting text, engaging in chats and conversations, understanding unstructured data, and applying advanced machine learning models to make complex decisions.

Where can RPA be used?

Today, RPA is driving new efficiencies and freeing people from repetitive tedium across a broad swath of industries and processes. Enterprises in industries ranging from financial services to healthcare to manufacturing to the public sector to retail and far beyond have implemented.

RPA in areas as diverse as finance, compliance, legal, customer service, operations, and IT. That is just for starters.

What features and capabilities are important in RPA technology?

To build and manage an enterprise-wide RPA program, you need technology that can go far beyond simply helping you automate a single process. You require a platform that can help you create and manage a new enterprise-wide capability and help you become a fully automated enterprise. Your

RPA technology must support you end-to-end, from discovering great automation opportunities everywhere, to quickly building high-performing robots, to managing thousands of automated workflows.

Is RPA the same as artificial intelligence (AI)?

RPA is not AI; AI is not RPA. However, the combination of RPA and AI unlocks massive new possibilities for enterprises everywhere. For one thing, RPA technology now makes it possible to insert advanced AI skills in the form of machine learning models, natural language processing (NLP), character and image

recognition, and more into RPA robots. Giving robots these AI skills dramatically expands their ability to handle cognitive processes that require things like:

Why is RPA the fastest-growing enterprise software in the world?

Rapid, significant return on investment (ROI).

Minimal upfront investment.

No disruption to underlying systems.

Low-code build environment.

Scalable and enterprise-ready.

When you combine RPA's quantifiable value with its ease of implementation relative to other enterprise technology, it is easy to see why RPA adoption has been accelerating worldwide.

RPA can help many different types of industries address their specific operational issues in new and powerful ways.

Leaders of functional areas from finance to customer service to marketing to human resources and beyond find that RPA improves many processes, yielding higher capacity, faster throughput, and fewer errors for key processes.

From a CFO's perspective, an investment in RPA technology delivers rapid ROI and requires minimal upfront spending compared to other enterprise technology.

Employees find that it is easy to adopt robotic assistants into their workdays, and that RPA's low-code approach lets them become citizen developers who can build their own simple automations.

Understanding documents including semi structured or unstructured data.

Visualizing screens (including virtual desktops).

Comprehending speech and carrying on conversations and chats

In addition, at a time when companies need to accelerate their integration of AI into front-line activities and decisions, many are finding that RPA can serve as AI's 'last-mile' delivery system. Robots can be configured to apply machine-learning models to automated decision-making processes and analyses, bringing machine intelligence deep into day-to-day operations.

G.NIVETHA II BSc

INTERNET OF BEHAVIOURS



IoB (Internet of Behaviours) is an extension of IoT (Internet of Things). IoB refers to the "behavioural data analysis gathered from the Internet of Things and other sources" and

then attempts to make effective use.

The concept itself is thought to have originated in blogs written by psychology professor Gote Nyman in 2012, when he described a way "to offer individuals and/or communities a new means to indicate selected and meaningful behaviour patterns, as many as they like, by assigning a specific IB address (analogous to the internet of things) to each behaviour...pattern just as the person or community sees as best".

Benefits of IOB are:

Analyze customer buying habits across all platforms.

Study previously unattainable data on how users interact with devices and products.

Obtain more detailed information about where a customer is in the buying process.

Provide real-time POS notifications and targeting.

Improve user experience. Designing UX is a crucial part of sales. ...

Enhance public health. ...

Improve public safety.

Potential Disadvantages of IOB:

There are chances of Data theft and personal information leaks that may adversely affect the individuals.

The abundance of data and insight will be a huge challenge to manage and secure. There will be a greater need for cyber security to stop crimes.

- NIKHITHA .R, II BCA

FREE SPACE OPTIC COMMUNICATION



Free-space optical communication is an optical communication technology that uses light propagating in free space to wirelessly transmit data for telecommunications or computer networking. "Free space" means air, outer space,

vacuum, or something similar. This contrasts with using solids such as optical fibre cable.

Free Space Optics (FSO) is a technology that uses laser beams via a line of sight optical bandwidth connection to transfer data, video or voice communications across areas ranging typically from 100m to a few kilometres at throughput bandwidths up to 1.5Gbps at frequencies above 300GHz of wavelengths.

Application:

Cable Free FSO links are used in thousands of mission-critical customer networks worldwide, with diverse applications including 4G/LTE Backhaul, CPRI Front haul, 3G and 2G Networks, Corporate Networks, Finance, Energy, Oil and Gas Exploration, Power Utilities, Education.

Advantages:

Excellent bandwidth to cost ratio - FSO links are a very cost effective way to provide high bandwidth links over short distances

License free operation - many radio links require licenses.

High Bandwidth

Low error rates

Full Duplex communications

Are not effected by interference

Inherently secure

No Fresnel zone clearance required - only direct line of sight

Disadvantages:

Mounting - lasers require a very firm mounting location making them unsuitable for tower and mast mounting.

Can be effected by atmospheric conditions - rain, fog etc. - although this is becoming less of an issue with modern links. Snow can build up on incorrectly installed units.

Limited Life-the laser diodes using in FSO links have a limited life before they fail, typically about 7-8 years in comparison radio links can last much longer.

KRUTHIKA .S, II BCA

NON-FUNGIBLE TOKEN

What Is a Non-Fungible Token (NFT)?

Non-fungible tokens or NFTs are cryptographic assets on blockchain with unique identification codes and metadata that distinguish them from each other. Unlike cryptocurrencies, they cannot be traded or exchanged at equivalency. This differs from fungible tokens like cryptocurrencies, which are identical to each other and, therefore, can be used as a medium for commercial transactions.

WHAT YOU NEED TO KNOW

NFTs are unique cryptographic tokens that exist on a blockchain and cannot be replicated.

NFTs can be used to represent real-world items like artwork and real estate.

"Tokenizing" these real-world tangible assets allows them to be bought, sold, and traded more efficiently while

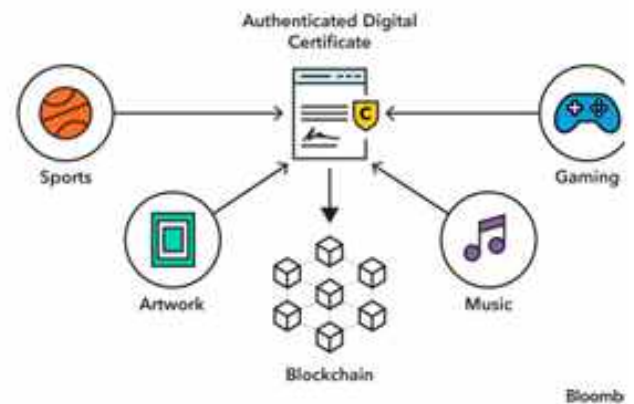
Why Are Non-Fungible Tokens Important?

Non-fungible tokens are an evolution over the relatively simple concept of cryptocurrencies. Modern finance

Systems consist of sophisticated trading and loan systems for different asset types, ranging from real estate to lending contracts to artwork. By enabling digital representations of physical assets, NFTs are a step forward in the reinvention of this infrastructure.

What are NFTs?

Non-fungible tokens are a unique unit of data that can be stored and traced on a blockchain and bought or sold.



To be sure, the idea of digital representations of physical assets is not novel nor is the use of unique identification. However, when these concepts are combined with the benefits of a tamper-resistant blockchain of smart contracts, then they become a potent force for change.

Perhaps, the most obvious benefit of NFTs is market efficiency. The conversion of a physical asset into a digital one streamlines processes and removes intermediaries. NFTs representing digital or physical artwork on a blockchain remove the need for agents and allow artists to connect directly with their audiences. They can also improve business processes. For example, an NFT for a wine bottle will make it easier for different actors in a supply chain to interact with it and help track its provenance, production, and sale through the entire process. Consulting firm Ernst & Young has already developed such a solution for one of its clients.

PRAMITHA B.D., II BCA

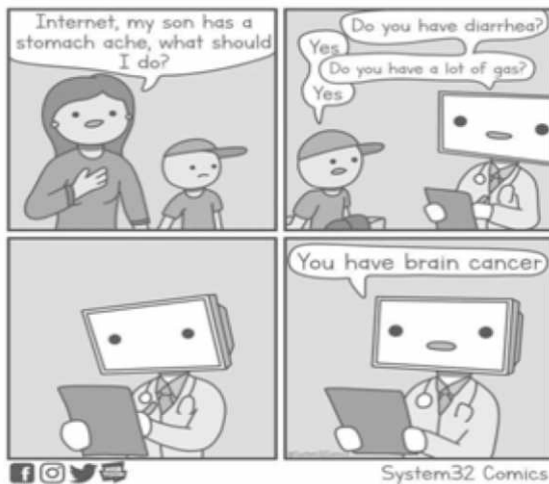
RIDDLES N' FUN

1. How do computers snack?
2. What is the Aliens favorite place on a computer?
3. What does the computer do when it is tired?
4. What will the spider do on a computer?
5. Why did Mark Zuckerberg visit China?
6. Which company makes billions of dollars selling windows?
7. What do you call a hero of the computer?
8. I scurry around your desk, but I am not a pest, who am I?
9. What does computer programming sing in the shower?
10. What do you call a nurse that creates websites?

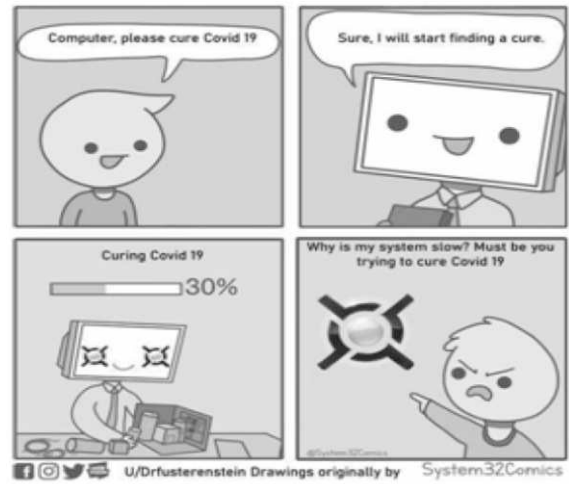
- Answers**
1. Cookies and spam
 2. The space bar
 3. It crashes
 4. Make a website
 5. To see the Great Firewall
 6. Microsoft
 7. A screen saver
 8. A computer mouse
 9. Disc-o
 10. A urologist

FUNNY COMPUTER COMIC STRIPS

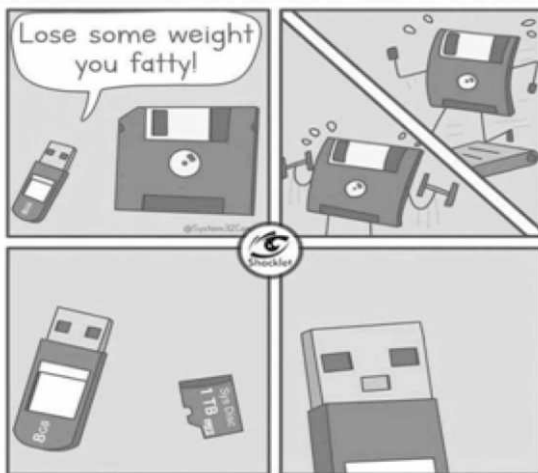
Asking Internet



Curing Covid - 19



The Result



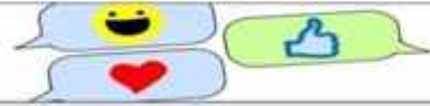
Downloading Program



TIPS TO STAY SAFE

8 tips to stay safe online

1 Be nice to people online.



2 Take care with what you share.



3 Keep personal information private.



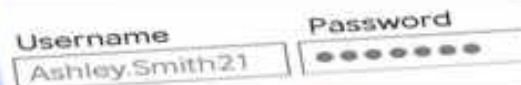
4 Check your privacy settings.



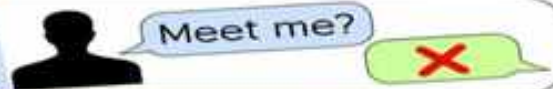
5 Know how to report posts.



6 Keep your passwords safe.



7 Never meet anyone in person you've only met online.



8 If you see anything online that you don't like or you find upsetting, tell someone you trust.



Did you KNOW

1. The first computer was weighed more than 27 tons
2. About 90% of the world's currency only exists on computers.
3. The first computer mouse was made of wood
4. People blink less when they use computers
5. Hackers write about 6,000 new viruses each month.
6. My Doom is the most expensive computer virus in history.
7. The parts of the first computer were first invented in 1833.
8. Some of the biggest computer brands started in garages.
9. The first Gigabyte drive cost \$40,000.
single computer catches 50% of all Wikipedia vandalism.

LATEST TECHNOLOGY

Artificial intelligence

Artificial intelligence (AI) is the technology used for equipping computer systems with the ability to make decisions like humans. Being one of the trending technologies, when AI programs are fed to systems, the aim is to mimic human intelligence for performing complex tasks such as pattern recognition, speech recognition, weather forecast and medical diagnosis.

Data Science

Next up in the list of latest technology concepts is not surprisingly Data Science. Data Science is the technology that helps to make sense of complicated data. You know that data is

produced in a humungous amount every day by companies.

This includes business data, sales data, customer profile information, server data, and financial figures.

Internet of Things

The IoT (Internet of Things) is a network of devices that are connected to each other. Their devices can interact and share data with each other. These devices may be connected via WIFI, and they share data about their environments and how they are being used. These devices have a computer chip that facilitates this exchange.

RECRUITMENT & PLACEMENTS OPPORTUNITY

Our college is very good for placements, which also holds a placement cell which is wellmanaged by the faculty.

We organise a special placement training in the final year which is very helpful to face any interview confidently. We also pool with other colleges for placements, so that there will be more opportunities to be placed.

The college provides the best placements, college achieves almost 90% placements.

The average salary package offered is 3 LPA, the minimum salary package offered is 1.5LPA.

Companies like TCs, Wipro, Infosys provide many opportunity to get placed

Top Recruiting Companies

1. Capgemini
2. Deloit
3. TCS
4. Wipro ltd
5. Infosys
6. Accenture
7. Many more Startup companies

BOOMING COMPUTER LANGUAGES IN 2021

1. Python :

Python is an interpreted high-level general-purpose programming language. Its design philosophy emphasizes code readability with its use of significant indentation.

Its language constructs as well as its object-oriented approach aim to

help programmers write clear, logical code for small and large-scale projects. Python is a language that every programmer should be able to use. Not only is Python's syntax intuitive and easy-to-learn syntax, but it is used in fields that are predicted to rise in 2021, namely machine learning and artificial intelligence.

2. Java :

Java is an immensely popular programming language that has been around for a long time. It still remains one of the most in-demand, widely used languages. Java is most common in web development, app development, and big data, but it can be used in just about everything (especially distributed systems).

Java is essential for enterprise-level web apps and micro services, which are on the rise in the next year. In 2021, Java will still dominate the banking sector and the Indian IT market.

Java is essential for Android development, as it offers strong memory allocation and high performance. It can also use on the backend as well for sites like Google, Twitter, Amazon, and YouTube .Almost every large organization will expect Java skills, especially for mobile development. In 2021, investment in Java frameworks increased, such as spring, Struts, and Hibernate.

3. Kotlin :

Kotlin is a general-purpose programming language that is completely interoperable with Java and supports functional programming. Kotlin is used most commonly

to develop Android apps, web applications, desktop applications, and server-side applications. It's the ideal language for anyone interested in those careers.

Kotlin was designed to be a more user-friendly version of Java, and now, most Google applications use Kotlin. Other companies that uses Kotlin in 2020 were Pinterest and Post Mates. Since Android is the highest-selling mobile operating system, Kotlin is a powerful language to learn in 2021.

4. Swift :

Swift was developed by Apple for creating iOS applications. It remains one of the most in-demand languages of 2021, as iOS applications are increasing in popularity around the world. Swift also is easy to learn and supports almost everything from Objective-C, so it's an ideal language for mobile developers. It is even used with IBM Swift Sandbox, IBM Bluemix, and most popular iOS apps like WordPress, Sound Cloud, and Mozilla Firefox

5. C/C++ :

C is one of the oldest, fastest programming languages, and it forms the foundation of most popular languages like C#, Java, and JavaScript. C++ is just an enhanced version of C.Both languages are essential for any career in computer science and programming. C and C++ developers can use compilers for most platforms, and they are high-performance languages, so they're used to build programs

where performance is essential, including, kernel development, client/server applications, and large commercial products (Adobe and Firefox).C/C++ also plays a huge role in the areas of game development, computer graphics, and virtual reality, which are all predicted to rise in 2021. Almost all big companies look for C/C++ skills,which means there's no better time to learn C.

6. JavaScript :

JavaScript is one of the most widely used languages, especially for web development. In fact, it is considered to be the standard programming language of the Internet.

JavaScript forms the foundation of almost everything you see on the Internet. So,

with web development on the rise in 2021, it's a good one to learn.JavaScript can used in both the front-end and back-end to add dynamic functionalities to websites.

It's also the foundation of most libraries and frameworks for the web, such

as React, Vue, and Node. If you want to work at any company that designs for the web,you need to know JavaScript.

STAFF ACHIEVEMENTS

Papers Published

On 31st December 2020 Mrs Sukrutha K S and Mrs Rajitha V, Assistant Professors of Computer Science published a paper entitled " PERSON VERIFICATION USING PCA, ICA 1, ICA 2 FOR PALM PRINT" in the International Journal of Research Culture Society (IJRCS) (ISSN: 2456-6683) UGC Approved & 5.743 Impact Factor Published in Volume - 4, Issue - 12, Dec - 2020.

Mrs Sukrutha K S and Mrs Rajitha V, Assistant Professors of Computer Science published a paper entitled "Role of Blockchain in Transforming Business" in the UGC-CARE Approved (Group-II) Multidisciplinary Journal AEGAEUM with ISSN: 0776 - 3808 & 6.1 Impact Factor in Volume 8 Issue 12 December 2020 Page No: 440 - 446

Smt. Jyothilakshmi G. Kava, Smt. Nayana M P and Smt. Ramya. S. K Assistant Professors of Computer Science published a paper entitled "A study on issues and algorithms of cyber security" in the UGC-CARE Approved (Group-II) Multidisciplinary Journal AEGAEUM with ISSN: 0776 - 3808 & 6.1 Impact Factor in Volume 8 Issue 12 December 2020 Page No: 447 - 452

June 2021- An article was published on the topic A Study of Agile Process and its Prototypes by Smt. Ramya. S. K and Miss. Kavya Urs, VI Semester BCA in the International Journal of Innovative Research in Technology. Volume 8 Issue 1 with Paper ID 152816

June 2021 - Ms Bharghavi H G published an article on the topic "DETECTION AND CLASSIFICATION OF TUBERCULOSIS USING CHEST X RAY", in International Journal Of Creative Research Thoughts (IJCRT) with Paper_ID IJCRT2106640

Virtual Programmes Attended

A total of 39 State, National and International Webinars attended by all the faculties of Computer Science Department.

Guest Lecture Programmes Organized

A total of 10 Guest Lecture Programmes was organized by all the faculties of the Computer Science Department.

Alumni Faculty/ Alumni Interaction Programmes Organized

A total of 8 Guest Lecture Programmes was organized by all the faculties of Computer Science Department.

Interdisciplinary Lectures Organized / Conducted

A total of 6 Interdisciplinary Lectures was conducted and 5 Interdisciplinary Lecture Programmes was organized by the faculty members of computer Science Department.

Student Faculty Programs organized

A total of 13 Student faculty Programmes was organized by the all faculty members of Computer Science Department.

TED Lectures Conducted/ Quizzes conducted

A total of 10 TED Lecture Programmes and 6 quizzes was conducted by the faculty members of Computer Science Department.

Competitions organized

A total of 6 inter class IT related a competition was organized by the all faculty members of Computer Science Department.

STUDENT ACHIEVEMENTS

On 8th, 9th and 12th of June 2021 - Ppt Presentation by Students of III BCA on their Project Synopsis on Google Meet Platform.

On 04.6.2021- Students of III BCA submitted a case study on various models and its applications.

A total of 109 class seminars were presented by B Sc Computer Science and BCA students during the academic year 2020-21

June 2021- An article was published on the topic A Study of Agile Process and its Prototypes by Smt. Ramya.S.K and Miss.KavyaUrs, VI Semester BCA in the International Journal of Innovative Research In Technology. Volume 8 Issue 1 with Paper ID 152816

On 23rd September Ms. Jewel T S, Ms. Harshitha H and Ms. Spoorthi K of IIIBCA participate in a National Level Online Project Exhibition ""AVISHKAAR - 2K21" competition coy Department of MCA, NitteMeenakshi Institute of Technology, Bangalore. Project Title: Smart Helmet with Bike Antitheft.

The following thirteen students have enrolled in Google Cloud Computing Foundations (GCCF) Programme sponsored by Google Cloud Center of Excellence, University of Mysore, Mysore. University of Mysore is providing students to access technology and services for expediting learning Google Cloud throughdGoogle Cloud Career Readiness and Cloud Computing Foundations Programs. The students had completed first level of the course.

Likhitha SA - IV Sem B Sc
M Sneha Singh- IV Sem B Sc
Kavyashree KL- IV Sem B Sc
Sahana DH- IV Sem BCA
Pramitha B D- IV Sem BCA
R Chithra- IV Sem BCA
Bindu BM- IV Sem BCA
G Nivetha- IV Sem B Sc
Nikhath Moumina- IV Sem B Sc
Rajeshwari B M- IV Sem B Sc
Manisha C S-- IV Sem B Sc
Neha R- IV Sem B Sc
Sangeetha- IV Sem B Sc



Photo Gallery



Guest Lecture Program on Introduction to Data Warehousing and Data Mining by Dr.Chandrajit M, Vice Principal and Associate Professor of Computer Science, M I T First Grade College, Mysore to III BCA and III B Sc students on 10th November 2020.



Alumni Faculty Programme by Smt. Usha B R, lecturer at St. Mary's PU College Nagasandra Post, Bangalore (Batch 2002) on the topic Relation on 28th October 2020 for I BCA Students.



Wall magazines display come competition Was conducted on 30th January 2021 For all BCA and B.Sc Students



International Webinar on Cloud Computing & Middleware Tools was organized by Smt. Rashmi Balachandran, Lead Consultant, Cloud Computing, SOA & Middleware Tools, HCL Technologies, Munich, Germany on 17th October 2020.



International Webinar on Robotic Process Automation (IWPR) was organized by Department of Computer Science released the 24th issue of in association with IQAC of the college by Mr. Shanmuganathan S, Scrum Master, All State Canada Group, Toronto, Canada On 17th July 2021.



President Poojya Dr D Veerendra Heggade (IWPR) released the 24th issue of Bi-Annual News Letter GI-Talk on 2nd December 2020

**CONGRATULATIONS TO ALL THE TOPPERS
WHO HAVE SECURED HIGHEST MARKS
IN THE UNIVERSITY EXAMINATIONS HELD DURING APRIL 2021**



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276/300 I - BCA



Chitra Krushnamurthy Hegde
271/300 - I BCA



Shubhalakshmi M.K.
264/300 - I BCA



Pavithra H.M.
184/200 III - BCA



Swathi B.P.
182/200 III - BCA



Pallavi B.S.
179/200 III - BCA



Sindhu G.
373/400 V - BCA



Nagapriya M.
371/400 V - BCA



Vinutha D.
368/400 V - BCA



Niharika M.S.
97/100 I - B.Sc.



Aditi R.K.
97/100 I - B.Sc.



Maheshwari C.
92/100 I - B.Sc.



Shanthala M.
89/100 I - B.Sc.



Apoorva S.
97/100 III - B.Sc.



G. Nivetha
95/100 III - B.Sc.



Srilakshmi R.
95/100 III - B.Sc.



Tejaswini N.
94/100 III - B.Sc.



Aditi Raul
148/150 V - B.Sc.



Nidhi Hebbar
148/150 V - B.Sc.



Smitha M.
139/150 V - B.Sc.



Keerthana S.
137/150 V - B.Sc.

**CONGRATULATIONS TO ALL THE TOPPERS
WHO HAVE SECURED HIGHEST MARKS
IN THE UNIVERSITY EXAMINATIONS HELD DURING SEPT. 2021**



Harini S.
277/300 II - BCA



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276/300 II - BCA



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268/300 II - BCA



Pavithra H.M.
273/300 IV - BCA



Preethi N.
272/300 IV - BCA



Veekshitha V.V.
271/300 IV - BCA



Sindhu G.
390/400 VI - BCA



Sunitha M.
386/400 VI - BCA



Sunitha M.
376/400 VI - BCA



Shanthala M.
86/100 II - B.Sc.



Aditi R.K.
85/100 II - B.Sc.



Niharika M.S.
85/100 II - B.Sc.



Amrutha V.
83/100 II - B.Sc.



Apoorva S.
96/100 IV - B.Sc.



G. Nivetha
95/100 IV - B.Sc.



Nikath Moumina
93/100 IV - B.Sc.



Srilakshmi R.
93/100 IV - B.Sc.



Aditi Raul
145/150 VI - B.Sc.



Nidhi Hebbar
136/150 VI - B.Sc.



Smitha M.
128/150 VI - B.Sc.

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