



|| Om Shree Manjunathaya Namaha ||

MMK & SDM MAHILA MAHA VIDYALAYA

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

Krishnamurthypuram, Mysore



Vision : Empowerment of Women to face Global Challenges



May 2023

Department of Computer Science

Issue - 26



Prof. Sainath Malligemadu
Principal

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

Faculty Editors
Mrs. Rajitha V.
Mrs. Jyothilakshmi G. Kava

Student Editors
Ms. Muskan A. - III BCA
Mrs. Nikhitha R. -III BCA

From the Principals' Desk...



Prof. Sainath Malligemadu
Principal

Welcome to the latest edition GITalk , the bi annual news letter of Department of Computer Science of SDM MMK Mahila Mahavidyalaya , Mysore. It is our pleasure to bring you the latest news and updates of the staff and student exuberance .

In this edition we highlighted the various events and activities that took over the last few months the student article , staff and students achievements , toppers in the last university examination , photo etc ..,are covered .

The department has come out to meet the challenges of NEP and our membership with ICT academy. These things led us to have innovative things to address the needs of the students .

Of course , these all we could do it through the staff and students interest. However the blessings of Lord Manjunatha Swamy and Poojya Heggade ji has let you higher development for which we are indebted.

We wish new issue of GITalk will bring you more news and updates in the coming month.

Thank you for your continued support .

Best regards

Message by HOD



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

As digital technology is the driving force in the current socio economic development, the department is focusing on making students versatile in learning opportunities.

The Department is motivating the young booming techies to face the Global challenges.

In view of this, the department of Computer Science is trying to provide a cutting edge career with the blend of quality education to the students by conducting various activities.

This 26th issue of GI Talk formulates the department activities during the academic year 2021-22 . The department organizes innovative programmes which accelerates revolution by exposing students to latest technological tools along with newly introduced NEP System by the Government. To Bridge the gap between industry and academia, the college in collaboration with ICT Academy, Chennai is providing excellent learning opportunities by organising various FDP's, Certificate Courses and online sessions for the benefit of both staff and students by inviting industry experts.

With this note,

I wish the students to embrace every opportunity provided by the department and fly out with vibrant colours to reach the goal. I appreciate the editorial team of G I Talk for bringing this issue successfully and wish you all good luck.

Thank you for your continued support .

Best regards

BLUE EYES TECHNOLOGY

The BlueEyes Technology works on Artificial intelligence . It aims to give human abilities to a computer. A research team of IBM has come up with this technology to make a computer understand and sense human feelings and behaviour.

AIMS:

- ❑ The Aim of the blue eyes technology is to give human power or abilities to a computer so that the machine can naturally interact with human beings as humans interact with each other , through speech , facial expressions and touch.
- ❑ All human beings have some perceptual capability the ability to understand each other's emotional level or feelings from their facial expressions . Blue eyes technology aims at creating a computer that has the ability to understand the perceptual power of the human being by recognizing their facial expressions and react accordingly to them.

APPLICATIONS:

- ❑ The blue eyes technology identifies human emotions using image processing techniques by extracting eye portion from the captured image and compares it with the stored images in the database.



- ❑ This high-end technology facilitates the computer to talk ,listen and feel our presence with various tools of artificial intelligence like face recognition, Fingerprint , and video calls etc.,

ADVANTAGES:

- ❑ Blue eyes technology can detect the human feelings through a device.
- ❑ It can detect a feeling by Eyes,Speech, recognition. It can also understand our mood and feelings.
- ❑ It can also react to our commands given by the user.

DISADVANTAGES:

- ❑ Blue eyes technology is that it is not 100 percent accurate and it needs a minimization and its system will be a bulky.
- ❑ The system which installed with blue eyes technology will be bulky and will be a very expensive.

JAYASHREE.E
II BCA

DATA FABRIC

A data fabric is an architecture and set of data services that provide consistent capabilities across a choice of end points spanning hybrid multicloud environments. It is a powerful architecture that standardizes data management practices

And practicalities across cloud, on premises, and edge devices. Among the many advantages that a data fabric affords, data visibility and insights, data storage operation, one that unlocks the best of cloud, core, and edge. It can reach anywhere, including on premises, public and private clouds, and edge and IoT devices, while remaining centrally governed.

Go near the days of disparate, disconnected infrastructures and data silos the size of skyscrapers. A data fabric is built upon a rich set of data management capabilities that ensure consistency across your integrated environments. It reduces tedious management through automation, speed of development/test and deployment, and protects your assets 24x7x365.

From this unified platform, you can monitor storage costs, performance, and efficiency-the "who is using what and how"-regardless of where your data and applications live. Once you've gained actionable insight into your hybrid cloud environment, you can rapidly (and, in some cases, automatically) make changes to it, including remediating problems, addressing security and compliance risks, and dialling up and down compute.

Access and control, data protection, and security quickly rise to the top.

WHY A DATA FABRIC?

Monitor and manage your data and applications, regardless of where they live. A data fabric is, at its heart, an integrated data architecture that's adaptive, flexible, and secure. In many ways, a data fabric is an strategic approach to your enterprise

WHAT A DATA FABRIC AND OF OR YOU?

A data fabric ultimately helps your organization unleash the power of data to meet business demands and gain a competitive edge. It allows your IT organization to better harness the power of hybrid cloud, build a hybrid multicloud experience, and modernize storage to data management.

NETAPP AND YOUR DATA FABRIC

For nearly three decades, NetApp has maintained a laser focus on innovations that help our customers build stronger, smarter, and more efficient infrastructures. Our goal? Deliver the right data and applications to the right place, at the right time, and with the right capabilities. When it comes to your business, we'll meet you where you are, seek to understand where you want to go, and then help you get there with a data fabric designed for simplicity and agility.

MUSKAN.A
III BCA

AN AI THAT JUDGES YOUR FACE

Facial recognition software isn't new, but it is gaining new abilities. You likely have some version of it on your phone right now. We count on those programs to recognize us and grant access to our technology when we need it. We also count on them not to judge us for our appearance, even on our worst days. In the future, however, all of that could change because of a new advancement in facial recognition.

Researchers taught an AI not only to recognize facial features, but to make snap judgments about a person's appearance. While being judged by a machine might hurt, it has important implications about the ways humans judge one another.

According to a research paper published in the Proceedings of the National Academy of Sciences, the first impressions we form upon meeting a new person influence decisions we make about them, including decisions about hiring and sentencing.

HOW?

Researchers used machine learning to train an algorithm to make judgments based on photographs of faces which closely mirrored the judgments we make about our selves and others. It's unclear what factors the algorithm used



to make its judgments, (per Tech Xplore), but scientists think the data can still teach us how our appearance impacts the way we engage with the world.

If an AI judging you isn't unsettling enough, it could also be put to nefarious use, by modifying or curating pictures such that a person could present a particular visage to the world.

ADVANTAGES

- Reduction in Human Error.
- Available 24x7.
- Digital Assistance.
- Faster Detections

DISADVANTAGES

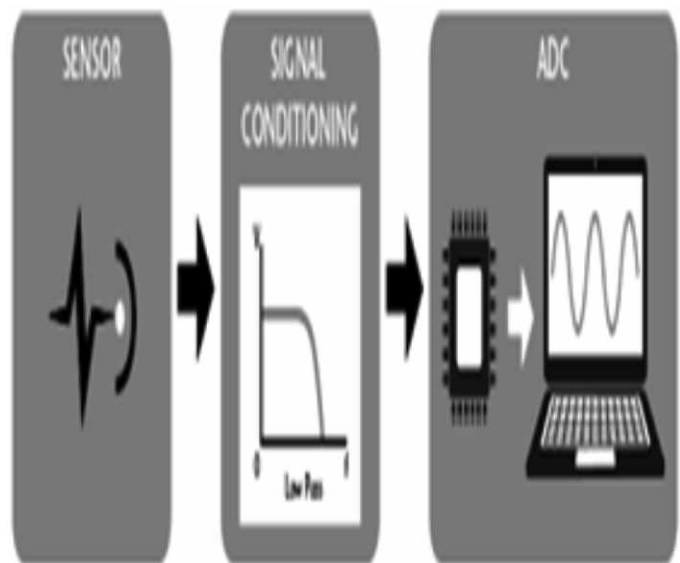
- Making us lazy
- Lacking out of box thinking.
- No emotions
- High cost of creation

CHARULATHA S.M.
III BCA

DATA ACQUISITION

(DAQ) technology provides the link between the data-generating sensors and data-storing recording devices. DAQ can also provide the means for driving external actuators from a computer, by the generation of external excitation signals. DAQ technology includes both hardware and software. Thanks to the recent advancements in process or technology, the low cost personal computer is now the most important carrier for data acquisition cards. The high clock speeds of modern central processing units(CPUs),such as Pentium and Power PC, enables higher amplingrates. This along with high performance bus architectures such as PCI, cheap RAM, and fast voluminous haddisks make long-term continuous measurements possible.

Traditionally, the clock speed of the computer CPU can significantly affect the performance of the DAQ system. However, newer direct memory access (DMA) transfer technology speeds up the system by using dedicated hardware to transfer data directly into system memory. Thus, the CPU is not burdened with moving data and is therefore free to engage in more complex processing tasks.In addition, if an application requires real-time processing of high-frequency signals,a dedicated digital signal processing (DSP)chip can be built-in on the DAQ board to share the workload of the main processor.Another important development is portable data acquisition based on laptop computers with PCMCIA cards. This configuration allows more convenient field measurements that used to be trouble some for practicing engineers. Emerging broadband internet and broadband cellular phones out perform traditional modem



hook-ups using RS-232 or RS-485 serial communication ports. These emerging communication technologies will make remote monitoring and access measurements more achievable.

ADVANTAGES

- Reduced data redundancy.
- Reduced updating errors and increased consistency.
- Greater data integrity and independence from applications programs.
- Improved data access to users through use of host and query languages.

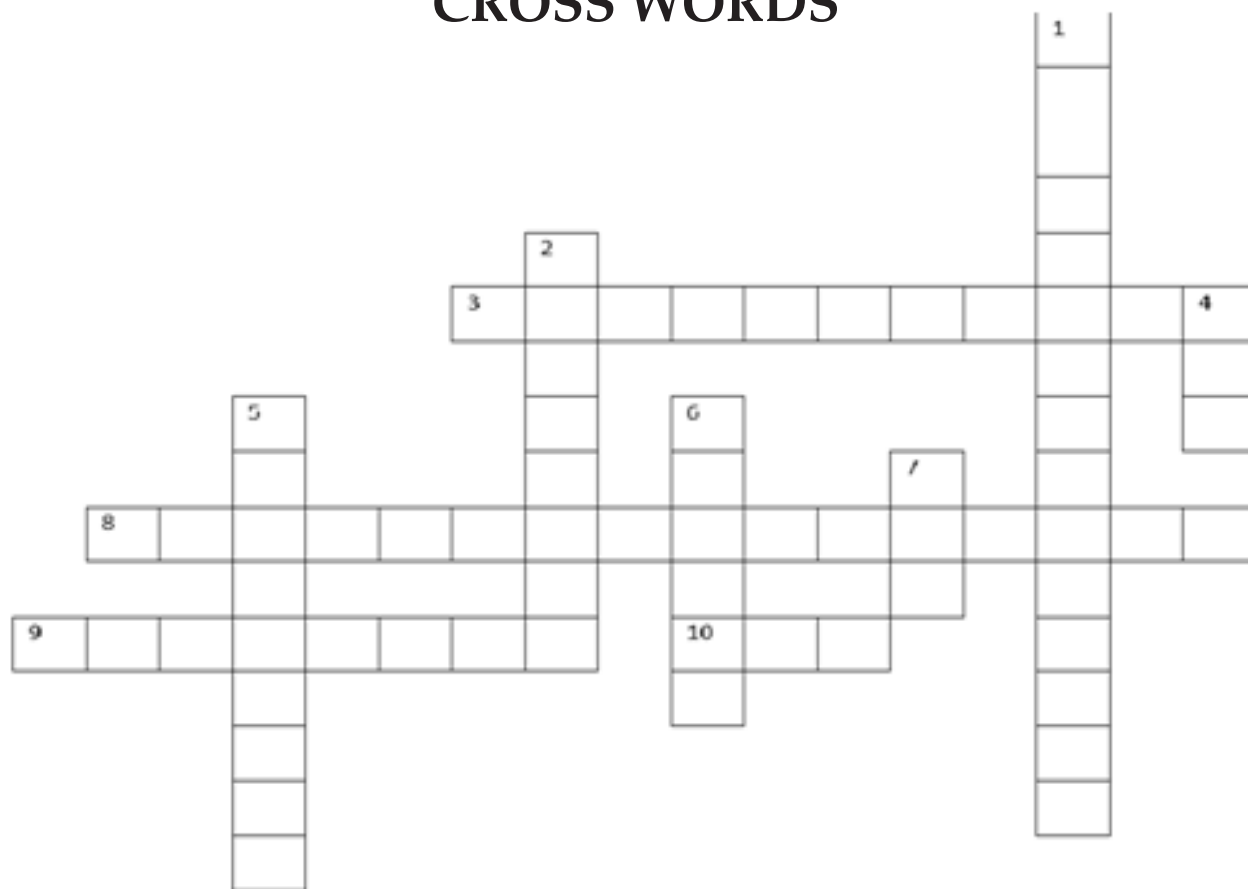
DISADVANTAGES

- Database systems are complex, difficult,and time-consuming to design.
- Substantial hardware and software start-up costs.
- Damage to database affects virtually all applications programs.

Extensive conversion costs in moving form a file-based system to a database system.

CHAYAKUMARI .R
III BCA

CROSS WORDS



Across

3. One of the most essential parts of a computer system.
8. A computer designed for use by one person at a time.
9. Is the collection of physical parts of a computer system.
10. Universal Serial Bus.

Down

1. Is the ability to use information and communication technologies to find, evaluate, create and communicate information, requiring both cognitive and technical skills.
2. Is a generic term for organised collections of computer data and instructions.
4. Short for digital versatile disc or digital video disc.
5. The primary computer storage device, which spins, reads and writes one or more fixed disk platters.
6. Refers to the copying and archiving of computer data so it may be used to restore the original after a data loss event.
7. A central processing unit

JYOTIHM
III BCA

Answers : Across : 3. Motherboard, 8. Personal Computer, 9. Hardware, 10. USB
Down : 1. Digital Literacy, 2. Software, 4. DVD, 5. Hard Drive, 6. Backup, 7. CPU

JOKES

1. Why was the new head IT official of IBM hospitalized ?
Because he didn't know and accidentally touched the firewall.
2. Why are the insurance and premiums of all app developers enormously high ?
Because they are always crashing down!
3. What do you call it when one IT professional gets surgeries on his fingers ?
It is called tech knuckle support!
4. Why are computers not good boxers at all ?
It is because their barks are always worse than their bytes!
5. Why does a fly never sit on top of a laptop or a computer ?
Because it is terribly afraid of the World Wide Web !

RIDDLES

1. What is an alien's favorite place on a computer?
Ans The space bar.
2. I move slower than molasses, if you use me, you probably wear glasses?
Ans Internet Explorer.
3. What does a computer do when it's tired?
Ans It crashes.
4. I live above a star but never burn, I have 11 neighbors but they never turn, my initials are p, q, r and sometimes S. what am I?
Ans Number 7 on a phone keypad.
5. I am in the school or home, I have a mouse, you can use me for work or games, you can use me for email I know! What am I?
Ans I am a computer.
6. I have an end but no beginning, a home but no family, a space without room, I never speak but there is no word I cannot make, what am I?
Ans A key board.
7. I am a mini solar powered computer, what am I?
Ans Calculator.
8. I have one eye, see near and far, I hold the moments you treasure and the things that make you weep, what am I?
Ans Camera.
9. This is the address of a document or "page" on the worldwide web it can be copied to link some one to the document what is it?
Ans URL.

RACHANA, IIIBCA

WHY COMPUTER ARE LIKE WOMEN?

1. No one but the creator understand their internal logics.
2. Even your small mistake are stored in long-term memory for later retrieval.
3. In order to get attention, you have turn the mon.
4. They have lot of data but still are clueless.
5. They are supposed to help you to solve problems, but half the time they are the problem.

A client called my help desk saying she could not send an e-mail. When I was done trouble shooting the problem, she interrupted me to ask, "wait a minute, do I type @in Lower or uppercase?"

A blonde goes into a computer store and asks the clerk, "Where do you keep the curtains for computer?" The clerk answers with a puzzled face, "Certain for computer? You don't need curtains for computers." The blonde's eyes widen and she shakes her head as she answers, "Hello!?"

My computer has Windows!!"

Shalini R., I BCA

RIDDLES

- | | |
|---|---|
| 1. The more you code, the more of me there is. I may be gone for now but you can't get rid of me forever. What am I?
(Answer: A bug) | 6. I'm fundamental and used to build larger structures. While you'll find many different kinds of me, we all just mess with information in different ways. What am I?
(Answer: A datastructure) |
| 2. As a developer I'm your eyes, showing you the result of your code in your language of choice. What am I?
(Answer: A print statement) | 7. I'm a language for everything yet I have no real identity of my own. Good luck trying to compile me. What am I?
(Answer: Pseudocode) |
| 3. As a developer, you usually get mad at me because I complain a lot, although I'm usually right. What am I?
(Answer: A compiler) | 8. I'm a shape shifter. You could call me someone who could possess multiple qualities but only has one set of them at any given time. What am I?
(Answer: Poly morphism) |
| 4. I'm your "waiter" for information. What I am?
(Answer: A server) | 9. I'm a simple thing, nothing special. While I have many cousins, we're all very similar because we set your project up. What am I?
(Answer: A configuration file) |
| 5. I have a pulse but no heart, a brain but can't think and while I can sleep, I usually don't stay asleep for long? What am I?
(Answer: A CPU) | |

**SAHANA S.
III BCA**

MS-Excel Shortcut Keys

Description	Excel Shortcuts
To create a new workbook	Ctrl+N
To open an existing workbook	Ctrl+O
To save a workbook/spreadsheet	Ctrl+S
To close the current workbook	Ctrl+W
To close Exel	Ctrl+F4
To move to the next sheet	Ctrl+Pagedown
To move to the previous sheet	Ctrl+Page Up
To go to the Data Tab	Alt+A
To go to the view tab	Alt+W
To go to the Formula tab	Alt+M

NIKHITHA.R, III BCA

CAREERGUIDANCE AND PLACEMENT OPPORTUNITIES

The career guidance and placement cell of the college encourages the students to obtain a bright future ahead by inculcating several activities such as interaction with techies. To enhance the skills of students every year CRT programme , Personality Development Programme and Skill Development Programme is held for third year, second year and final year students. Campus drives from National and Multinational companies are organized. Career guidance programmes will be organized to motivate the students towards several career guidance programmes.

Computer Science Students Placement Statistics during 2021-22

PROGRAM		NO. OF PLACEMENTS
BSC - EMC	-	17
BSC- PMC	-	21
BCA	-	46

STAFF ACHIEVEMENTS

A. Paper Published:

1. December 2022 - Smt. Ramya S K published a paper titled **An Overview on Video Processing** in Science, Technology and Development Journal (UGC Care)- Volume 10 - Issue 12 with ISSN - 0950-0707
2. 01/7/2022 - Ms. Bharghavi H G Published a paper titled **Personal Authentication Using Iris Recognition** in IJIRT- Volume 2- Paper ID: 155833.
3. 23/12/2022 - Ms. Sowmya N published a patent publication titled **A System for detecting and classification of machine anomalies using CNN**, Issue no -51/2022, the patent office journal.

B. Virtual Programmes attended

A total of 8 State, National and International Webinars were attended by all the faculties of Computer Science Department.

C. Activities

1. A total of 1 University Level workshop, 2 Certificate/ Add on course and 7 extension activities was organized by the all the faculties and final year BCA students of Computer Science department.
2. As a part of the extension activity, donated five computers and a printer to Government High School, Lakshmipuram, Mysore

D. Alumni Faculty/ Alumni Interaction Programmes Organized

An Alumni Faculty Programme was organized by the Department of Computer Science to the students of I BSc on the topic **Recursion and its Applications** by Smt. Sahana K. Assistant Professor of Computer Science, BGS, FGC, Mysuru (Alumna of the College 2009-2012 Batch). 18 students attended the programme.

E. Interdisciplinary Lectures Organized

Smt Rajitha V, organized an Interdisciplinary Lecture program for III BCA students by Smt. Chaitra.N, Asst. Prof of Mathematics on the topic "Asymmetric Key Cryptography".

F. Student Faculty Programme Organized

A total 5 Student Faculty Programmes was organized by all the faculty members of Computer Science Department.

G. TED Lectures Conducted/ Quiz conducted

A total of 6 TED Lecture Programmes were Organized by the faculty members of Computer Science Department.

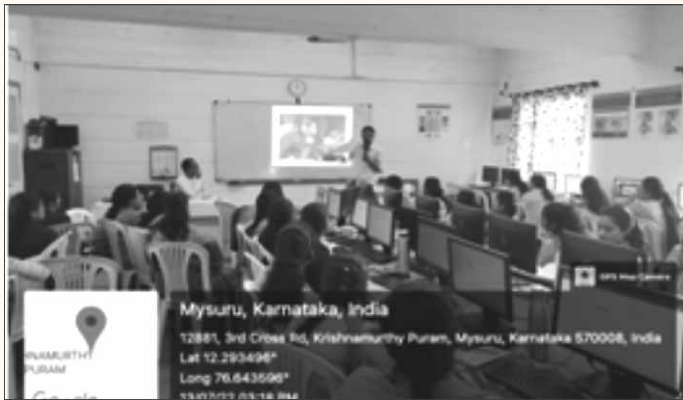
H. Competitions Organized

A total of 7 Inter-Class IT related Competitions were Organized by all the faculty members of the Computer Science Department.

STUDENTS ACHIEVEMENTS

1. A total of 64 students from III BCA presented their Project Presentations and project Demo to their respective guides.
2. Five Students of B.Sc & BCA - Ms.Pramitha B D, Ms.Muskan A, Ms.Madhumitha S, Ms .Dharani S and Ms.Manisha C S are doing one month internship program on Machine Learning, Deep Learning, Python, HTML, CSS which commenced from 5/5/2022 Contriver A central Government of India Recognized organization, Nanjanagud Mysore.
3. Ms.Anagha of II BCA participated in National Level NSS camp at KSOU, Mysore, Thal Sainic Camp -2, NCC camp at KSOU, Mantagalli, Mysore, ThalSainic Camp - 3, NCC camp at KSOU, Mantagalli, Mysore, and IGC/TSC-1 and CATC-I NCC camp held at Alvas College Moodbidri.
4. On 23/06/2022 and 24/06/2022 - Ms.Muskan A and Smt.Nikhitha R participated in inter collegiate Treasure Hunt competition & Hackthon Competition organized by Hindustan First Grade College,Mysuru.
5. On 12th and 13th August 2022 Ms.Shreesha G H and Ms. Deeksha Shastry of II BCA participated in the event CODE MONKEY of inception 2022 intercollegiate fest held at SBRR Mahajana First Grade College, Mysuru.
6. From 20/08/2022 to 25/08/2022 - Ms. Nandini R, II BCA participated in NSS State Level Youth Festival - 2022 at NSS Bhavana, Mysore organized by University of Mysore
7. Ms. Sahana D H of III BCA has completed 2 online non-credit courses authorized by Google Cloud and also completed two 7 days long boot camp on JavaScript, Python Camp; Cyber security By ShapeAI in collaboration with GDG Ranchi (Google Developers)
8. Ms.Neha R of III B Sc has completed and participated in a total of 27 various Online courses,online internships, Skill development Programs and certificate courses.
9. 15th to 20th December 2021 - Around 30 Students of II BCA, III BCA and III B Sc completed the on line course on Step into Robotic Process Automation - Skill - A Thon 2021- Round 1 conducted by UI Path hosted by ICT Academy.
10. On 29/6/2022 - Ms. Harini S, Ms. Mahalakshmi , Ms. Chithra K, Ms. Muskan, Ms. Veekshitha attended on line webinar on "Using AI in Education" organized by AWS EdStart and sponsored by ICT Academy.
11. A total of 64 students from III BCA has completed 100Hrs course on "Programming Essentials in Python" under FedEx Express Women Empowerment Program organized by Department of Computer Science.

Photo Gallery



One Day University level workshop on PHP
on 3-7-2022



Certificate Course on Programming Essentials in Python
ICT Academy for final year BCA students on 22-8-2022



Internet Awareness Programme for students of
Government High School, Lakshmipuram, Mysore
on 18-8-2022



Computer Literacy Programme
by final year BCA students on 27-8-2022



Faculty Exchange Program at JSS law college, Mysuru
on the topic "Security and Encryption" by Smt. Rajitha V.
on 29-10-2022



Alumni Faculty Programme by Smt Sahana K, Assistant
Professor of Computer Science, BGS FGC, Mysuru
on 9-6-2022

Photo Gallery



Student Faculty Programme by Smt. Nikhitha R of III BCA to II BCA students on the topic Transportation Problem. on 10-12-2021



TED Lecture on the topic "Programming as a Second Language" for III BCA students. on 30-12-2021



Inauguration of Wall Magazine by Dr. M Devika Rani, Principal of Sharada Vilas First Grade College, Mysuru on 12-12-2022



Office bearers of Tech Amateur IT Club along with chief guest, Principal and Staff members on 16-6-2022



Donated five computers and a printer to Government High School, Lakshmipuram, Mysore on 24-9-2022



Add on course to M Com students on 21-9-2022

DEPARTMENT OF COMPUTER SCIENCE
CONGRATULATIONS TO ALL THE TOPPERS WHO HAVE SECURED
HIGHEST MARKS IN THE UNIVERSITY EXAMINATIONS
HELD DURING MARCH 2022



Nimisha Vinay
353/400
BCA - I Sem



Harshitha S.
351/400
BCA - I Sem



Soundarya M.
346/400
BCA - I Sem



Kusuma M V
195/200
BCA - III Sem.



Ananya K R
186/200
BCA - III Sem.



Chinmayie K A
181/200
BCA - III Sem.



Chinthana S V
181/200
BCA - III Sem.



Jayashree E
181/200
BCA - III Sem.



Meghana M V
181/200
BCA - III Sem.



Veekshitha V V
383/400
BCA - V Sem.



Bhoomika M P
369/400
BCA - V Sem.



Preethi N
366/400
BCA - V Sem.



Rashmi K
89/100
B.Sc. - I Sem



Anushree N R
85/100
B.Sc. - I Sem



Rishitha Rajan
81/100
B.Sc. - I Sem



Aditi R K
97/100
B.Sc. - III Sem



Thasvi
96/100
B.Sc. - III Sem



Amrutha V
95/100
B.Sc. - III Sem



Maheshwari C
95/100
B.Sc. - III Sem



Niharika M S
95/100
B.Sc. - III Sem



G.Nivetha
142/200
B.Sc. - V Sem.



Apeksha H V
139/200
B.Sc. - V Sem.



Kavyashree K L
136/200
B.Sc. - V Sem.



Neha B L
136/200
B.Sc. - V Sem.

CONGRATULATIONS TO ALL THE TOPPERS WHO HAVE SECURED HIGHEST MARKS IN THE UNIVERSITY EXAMINATIONS HELD DURING SEPT. 2022



Shrutha S Avadani
270/300
BCA - II Sem.



Shalini R
263/300
BCA - II Sem.



Soundarya M
262/300
BCA - II Sem.



Kusuma M V
279/300
BCA - IV Sem.



Jayashree E
269/300
BCA - IV Sem.



S. Sahanasri
267/300
BCA - IV Sem.



Preethi N
373/400
BCA - VI Sem.



Madhumitha S
369/400
BCA - VI Sem.



Akhila Bai
360/400
BCA - VI Sem.



Anushree N R
140/150
B.Sc - II Sem.



Rashmi K
140/150
B.Sc - II Sem.



Rakshitha N
139/150
B.Sc - II Sem.



Kavitha H D
133/150
B.Sc. - II Sem.



Aditi R K
95/100
B.Sc. - IV Sem.



Dakshatha Urs M S
92/100
B.Sc. - IV Sem.



Aishwarya R
87/100
B.Sc. - IV Sem.



Shalini M
87/100
B.Sc. - IV Sem.



Thasvi
87/100
B.Sc. - IV Sem.



Apeksha H V
147/150
B.Sc. - VI Sem.



Nikath Moumina
140/150
B.Sc. - VI Sem.



Sangeetha A B
140/150
B.Sc. - VI Sem.



Archana I T
137/150
B.Sc. - VI Sem.



Meghashree G V
137/150
B.Sc. - VI Sem.

Editorial Team



Mrs. Rajitha V.
Asst. Professor
Dept. of Computer Science



Mrs. Jyothilakshmi G. Kava
Asst. Professor
Dept. of Computer Science



Ms. Muskana A.
Student Editor
III BCA



Ms. Nikhitha R.
Student Editor
III BCA