



# Bishop Cotton Women's Christian College

# BITS & BYTES

**Department of Computer Science**

**Volume 3**



## Faculties of Department

**Mrs. Suja D Shanthi**  
Associate Professor, HOD  
MCA., MPhil

**Mrs. Ann Kuruvilla**  
Associate Professor  
M.Sc(IT)

**Mrs. Reeja Esther**  
Associate Professor  
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Associate Professor  
M.Sc (Software Systems)

**Mrs. Manjula M**  
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MCA., PGDCA., M.Phil



# BITS & BYTES

Bishop Cotton Women's Christian College

2019-20



**An E-Newsletter by the Department of Computer Science**

The Department of Computer Science was started in the year 1989, and offers courses in BCA and BSc. The state of the art facilities and certificate courses conducted by the department enable the students to explore new horizons in this rapidly developing field. The Department has multidisciplinary courses in Computer Science and it enables the students to be employable or explore new horizons in the path of higher studies and research.

We are honoured to bring out the third edition of this e-newsletter this year. Hope it is instrumental in creating an insight into the activities of the department.

**Volume 3**

# EVENTS



- A Certificate course on “Python” was conducted for the final year BCA students.
- The BCA students had enrolled for free MOOC Online Certificate courses.
- The Department Newsletter Bits and Bytes (Vol-II) was released on 10 . 10 . 2019 .
- A guest lecture was organized on 12th September 2019, for the first semester BCA students on the topic “An Introduction to Python and its applications”. Around 33 students participated in it. Mrs. Edna Margaret, Assistant Professor, Department of Computer Science, Smt. VHD Central Institute of Home Science was the resource person.
- A guest lecture was organized on 28th October 2019, for the BCA students on the topic “Emerging trends in Information Technology”. The resource person was Dr.Chandra, Associate Professor, Department of Computer Science, Christ University.
- Intra Collegiate competitions were conducted for BCA and BSc students to encourage and bring out their talents, and the events conducted were Presentations using PowerPoint, Coding Challenge, Short Film, Technical Quiz and Poster making.
- Intercollegiate competition, on “Poster making” was conducted during Disha 2019 .
- The Department of Computer Science, along with the Department of Mathematics and Physics organized an Industrial visit to Karnataka State Natural Disaster Monitoring Centre on 20th February 2020.
- A one day National level Faculty Development Programme (online) was conducted on 15th June 2020, on the topic “Online Learning Assessment Resources”, by Dr. Ashok Immanuel, Associate Professor, Christ University, Bangalore.





# STUDENTS ACHIEVEMENTS



**Meher Ayesha**  
**3<sup>RD</sup> BCA**



Meher Ayesha of III BCA presented a paper on "Color Segmentation to Aid Colorblindness", during the National Level Conference conducted at Bishop Cotton Academy of Professional Management, Yelahanka on 13.3.2020. The ISBN number for the paper presented is ISBN:978-93-5406-186-8. She also presented a project during the intercollegiate IT fest conducted at Seshadripuram Degree College

# Intra Collegiate Prize Winners

STUDENT	CLASS	EVENT	POSITION
SAUDA FATHIMA	II BCA	MEHANDI	First Place
TASNEEM IRSHAD	I BCA	CODING CHALLENGE	First Place
SANA KAUSER	I BCA	FACE PAINTING	First Place
MONIKA K.L	I BCA	PHOTOGRAPHY	Second Place
CHRISTINA HART	I BCA	SHORT FILM	Second Place
TASLEEM F	I BCA	POWER POINT PRESENTATION	Second Place
ALANKRITHA S	I BCA	STAND UP COMEDY	Second Place
FARHA MODY	I BCA	SHORT FILM	Third Place
TASLEEM F	I BCA	POSTER MAKING	Third Place
SAUDA FATHIMA	II BCA	MAKEUP	Third Place
MAYURI, EVANGELINE	II BCA	WESTERN GROUP DANCE	Third Place
ANDREA, RASHMI			
DEEPIKA, RESHMA			
GLORY, DHARHINI			





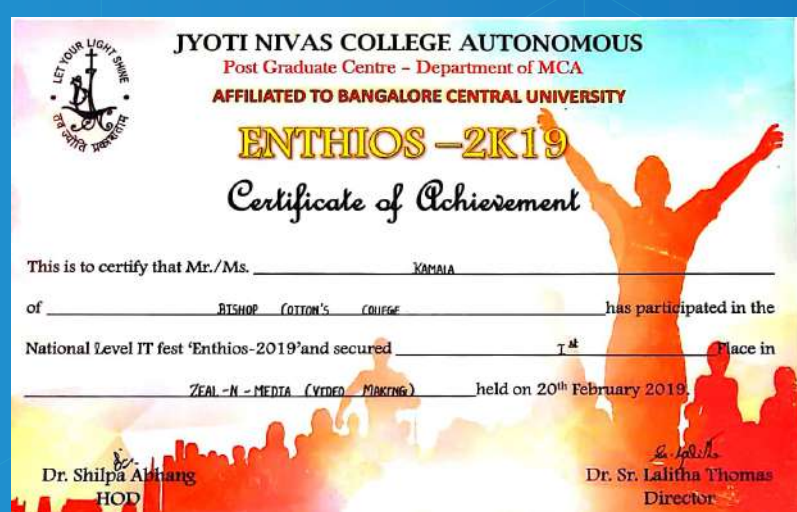
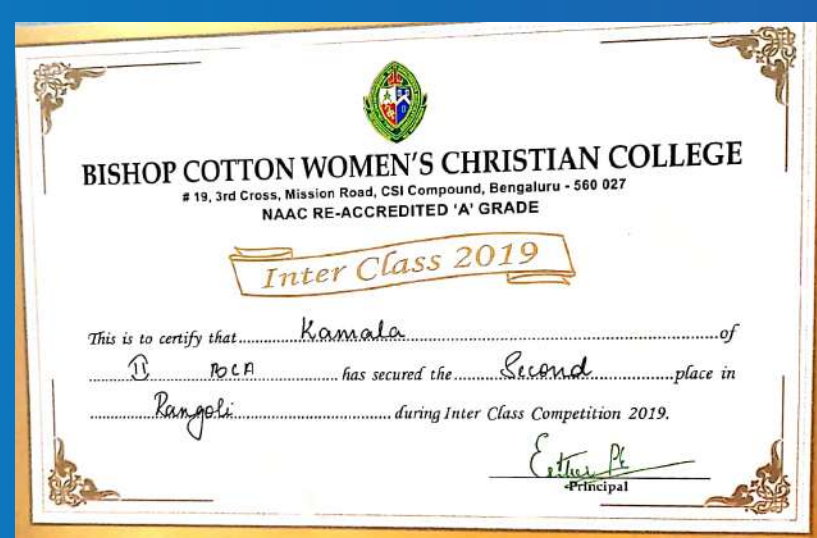
# Inter Collegiate Prize Winners

## II BCA

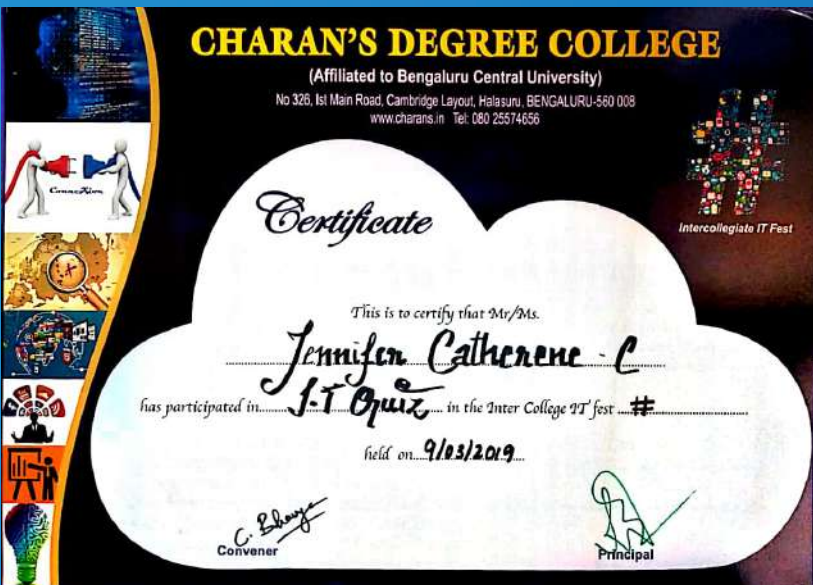
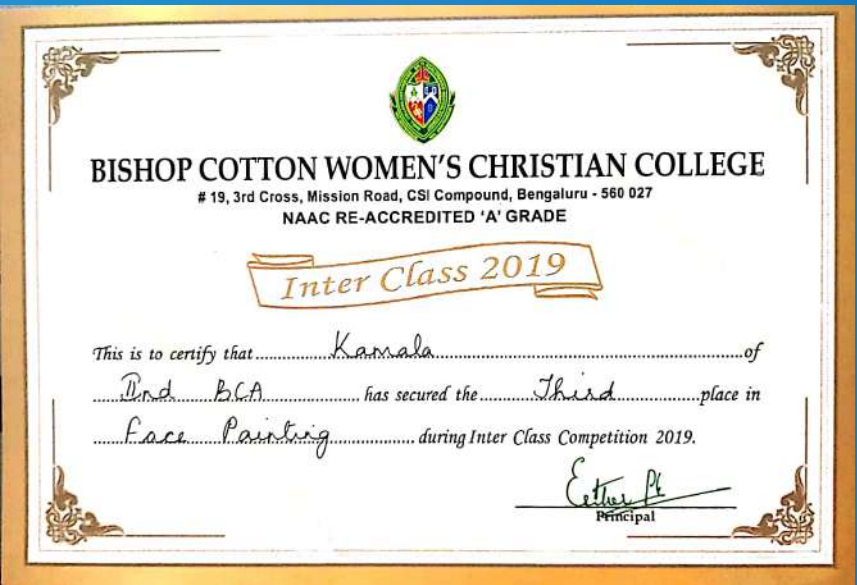
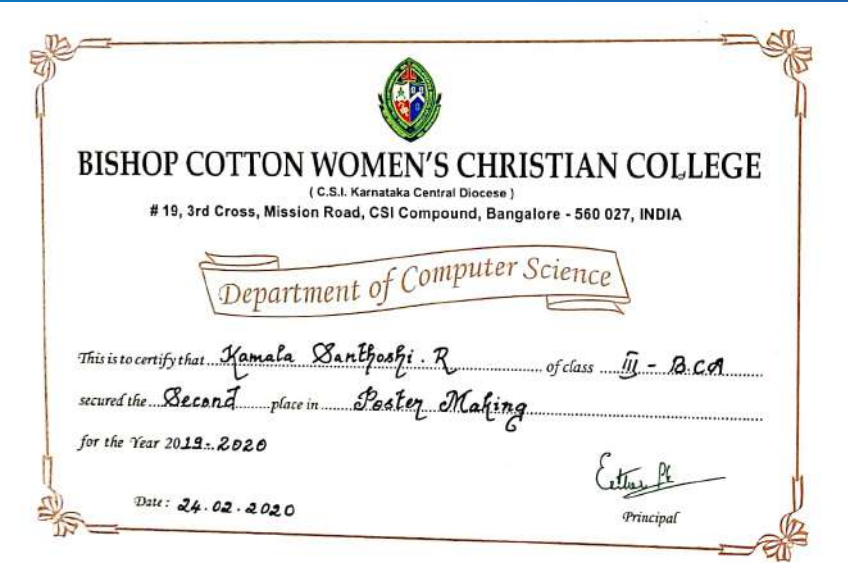
STUDENT	EVENT	POSITION	COLLEGE
Nida Fathima	• Video Making	3 <sup>RD</sup> Place	St.Josephs College
Kamala Santhoshi.R	• Poster making	2 <sup>ND</sup> Place	Aims College
	• Poster making	Consolation Price	Vijya College
	• Video making	1 <sup>ST</sup> Place	Jyothi Nivas College
	• Video making	3 <sup>RD</sup> Place	St.Josephs. College
Pooja. K	• Video making	3 <sup>RD</sup> Place	St.Josephs. College
Ume ruqaiya	• Choreography	1 <sup>ST</sup> Place	United mission Degree College
	• Rags to riches	2 <sup>ND</sup> Place	St.Josephs. College
A.N. Rushda	• Rags to riches	2 <sup>ND</sup> Place	St.Josephs. College
	• Web designing	2 <sup>ND</sup> Place	Charans degree College
	• Poster making	Consolation Price	Vijya College
	• Choreography	1 <sup>ST</sup> Place	United mission Degree College
Sona Infancia.S	• Choreography	3 <sup>RD</sup> Place	United mission Degree College
Sharon K	• Creative writing	3 <sup>RD</sup> Place	United mission Degree College
	• Choreography	1 <sup>ST</sup> Place	St.Josephs. College
	• Web designing	2 <sup>ND</sup> Place	Charans degree College
	• Movie making	3 <sup>RD</sup> Place	St.Josephs. College
Meher Aisha	• Rags to riches	2 <sup>ND</sup> Place	Jyothi Nivas College
	• Machine Learning and problem solving	1 <sup>ST</sup> Place	Jyothi Nivas College
	• Poster making	1 <sup>ST</sup> Place	Jyothi Nivas College
	• Movie making	1 <sup>ST</sup> Place	Jyothi Nivas College
Sophya Jayaraj	• Hogathon	3 <sup>RD</sup> Place	Jyothi Nivas College

The students of final year BCA participated in intercollegiate fests and won prizes in Web Designing, Movie Making, Rags to Riches. They also won the third place in “Short Film Making” during the intercollegiate fest at St. Joseph’s College of Commerce.

The BCA students did Presentation on the topics E-Governance, Web Mining, Big Data, Web Mining, 5G Technology, Block Chain, Mind Reading System and other recent technologies in Information Technology.









# WEBINARS & QUIZ

The lockdown has encouraged many students to learn and utilize the current technology. BCA students have enthusiastically participated in many webinars and online quiz competitions organized by different colleges.

- 33 students from I BCA participated in Online IT Quiz on
  - Web Fundamentals
  - Database Management System
  - C++ Programming
  - Java Programming
  - C Programmingconducted by Sri Krishna Degree College.
- 4 students of II BCA participated in “Computer Science Quiz” conducted by Sri Vivekananda Institute of Management”..
- Around 15 students of I year BCA have participated in “Techno spark 2020-Cyber Security Quiz” conducted by Bishop Cotton Academy of Professional management on 26th June 2020.
- 33 Students of I BCA have attended a five day career course on “Data Science” from June 13th to 17th 2020 conducted by Loyola College.
- Many students of I and III BCA had participated and successfully completed the online quiz conducted by Ramaiah College of Arts, Science & Commerce and Sadhana Degree College





# Weird But TRUE FACTS !!

- Some people are scared of Technology. Fear of technology is called technophobia.
  - ➡ Nomophobia- the fear of being without your mobile phone
  - ➡ Cyberphobia- the fear computers.
- The term robot actually means "forced labour."
- Changing fonts can save printer ink
- Email existed before the world wide web.
- Domain name registrations were free till 1995.
- Russia built a computer that ran on water: in 1936.
- The only state that can be typed on the same line of a QWERTY keyboard is Alaska. You just checked didn't you?
- People who are using a computer blink 66% less than those who aren't.
- In 2006 someone tried to sell New Zealand on eBay. The price got up to \$3,000 before eBay shut it down.
- The name Google was created accidentally. A spelling error was made by the original founders who were under the impression they were going for Googol.
- Facebook, Instagram, Twitter, Pinterest, and Tumblr are all banned in China
- 9 Coding languages were invented by women.
- The internet speed at NASA is 91GB per second.
- The first programmer in the world was a women named Ada lovelace.



# CYBER LIFE

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The little mouse is scrolling  
as the ocean waves are rolling  
and they beckon me to come down to the sea

The screen before me glowing  
while outside the flowers growing  
have a fragrance that is calling out to me

The keyboard keeps me busy  
at the same time I am dizzy  
yet the birdsongs out my window sound so sweet

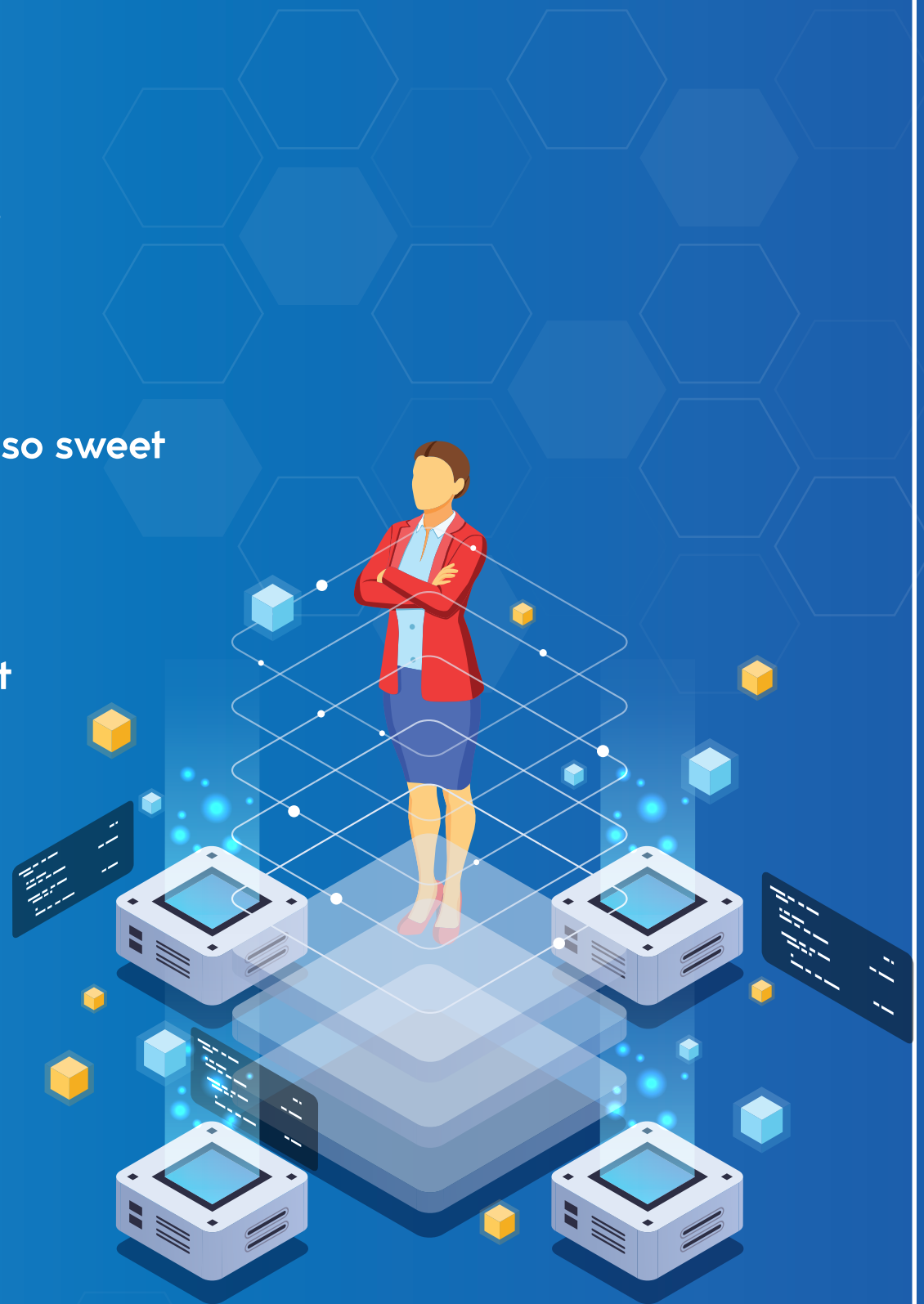
While the gigabytes are loading  
my poor eyeballs are exploding  
and the circulation doesn't reach my feet

One last video, I say  
then another makes its way  
interrupting my intentions to go out

One more minute, then I'll quit  
one more hour, here I sit  
I've forgotten just what life is all about

There is work and there is play  
but somewhere along the way  
all my play times are so few and far between

Push a button, L O L  
while my spirit goes to hell  
as I live my cyber life upon a screen

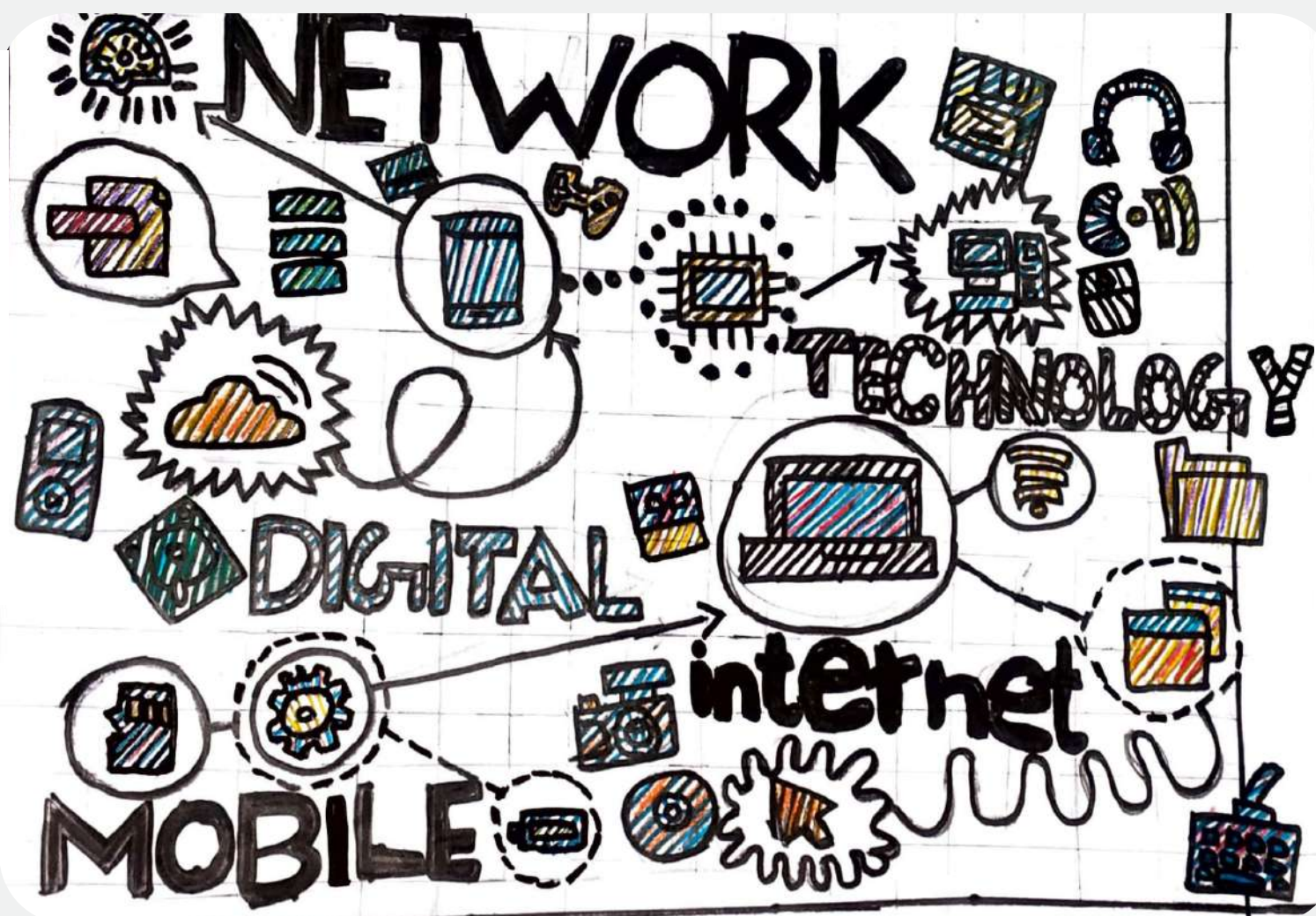


Monika K.L  
I BCA





Athiya Kouser, II BBA



Siddiqua Noorien , II BCA





# TRENDING TECHNOLOGIES



## ARTIFICIAL INTELLIGENCE (AI)

Artificial Intelligence (AI) is the branch of computer sciences that emphasizes the development of intelligence machines, thinking and working like humans. For example, speech recognition, problem-solving, learning and planning.

## QUANTUM COMPUTING

Quantum computers perform calculations based on the probability of an object's state before it is measured - instead of just 0s or 1s - which means they have the potential to process exponentially more data compared to classical computers.

## DIGITAL TWIN

Quite simply, a digital twin is a virtual model of a process, product or service. This pairing of the virtual and physical worlds allows analysis of data and monitoring of systems to head off problems before they even occur, prevent downtime, develop new opportunities and even plan for the future by using simulations

## BLOCKCHAIN TECHNOLOGY

A blockchain is, an immutable time-stamped series record of data that is distributed and managed by cluster of computers. Initially, used for Bitcoin and other cryptocurrencies blockchain has now found use cases in several industries including finance, real estate, and health.

## ROBOTIC PROCESS AUTOMATION(RPA)

Robotic Process Automation is the technology that allows anyone today to configure computer software, or a “robot” to emulate and integrate the actions of a human interacting within digital systems to execute a business process.





## ANALYTICS

Data analytics is the science of analyzing raw data in order to make conclusions about that information. The techniques and processes of data analytics have been automated into mechanical processes and algorithms that work over raw data for human consumption. Data analytics help a business optimize its performance.

## ETHICS

Technology ethics are principles that can be used to govern technology including factors like risk management and individual rights. They are basically used to understand and resolve moral issues that have to do with the development and application of technology of different types.

## 5G DATA NETWORKS

5G is the 5th generation mobile network. It is a new global wireless standard after 1G, 2G, 3G, and 4G networks. 5G enables a new kind of network that is designed to connect virtually everyone and everything together including machines, objects, and devices.

## COMPUTER VISION

Computer vision is a field of artificial intelligence that trains computers to interpret and understand the visual world. Using digital images from cameras and videos and deep learning models, machines can accurately identify and classify objects — and then react to what they “see.”

Sauda Fathima  
II BCA



# GALLERY

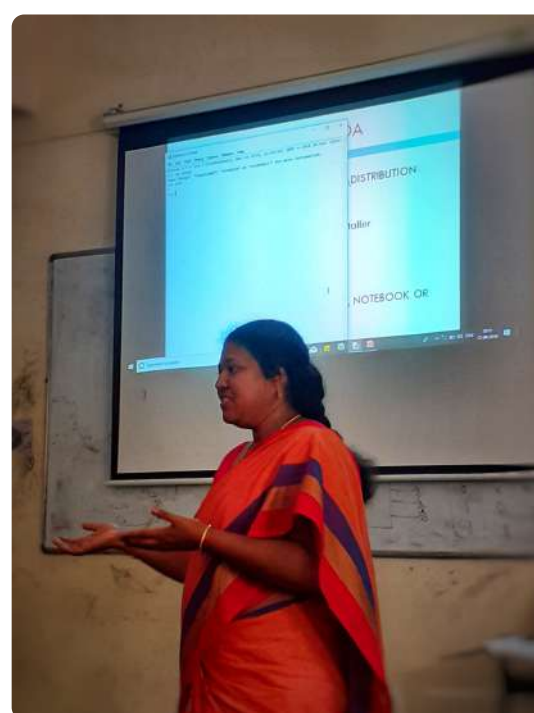


Release of Newsletter



Intra Class Events Conducted





## GUEST LECTURE—“ An Introduction to Python and it's applications

**BISHOP COTTON WOMEN'S CHRISTIAN COLLEGE**  
#19, 3rd Cross, Mission Road, CSI Compound, Bengaluru - 560 027  
AFFILIATED TO BENGALURU CENTRAL UNIVERSITY | NAAC RE-ACCREDITED

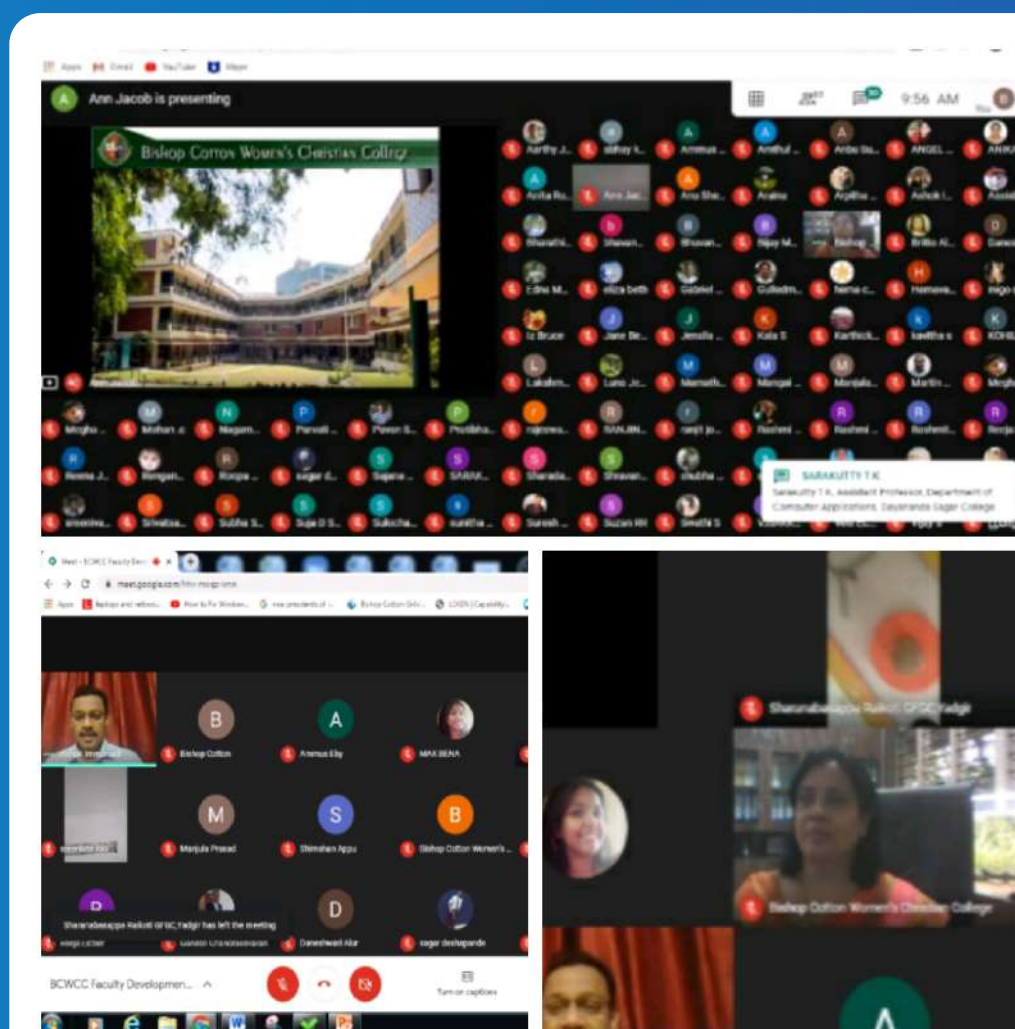
**DEPARTMENT OF COMPUTER SCIENCE**  
organizes  
**FACULTY DEVELOPMENT PROGRAMME**  
on  
**ONLINE LEARNING ASSESSMENT RESOURCES**  
(An IQAC Initiative)

**15 JUNE 2020**  
**10.00 AM TO 11.30 AM**  
WEBINAR PORTAL:  
**GOOGLE MEET**

**RESOURCE PERSON:**  
Dr. Ashok Immanuel  
Associate Professor, Dept of Computer Science  
Christ (Deemed to be university)  
Bengaluru

**REGISTRATION IS FREE.**  
**ONLY PARTICIPANTS WILL RECEIVE**  
**THEIR E-CERTIFICATES**

E-mail: bcabcwcc@gmail.com







**FIELD VISIT— Industrial visit to Karnataka State Natural Disaster Monitoring Centre with I BCA**



**Meher Ayesha**  
**3<sup>RD</sup> BCA**

**Winner of Malabar Golden Girl's Talent show - Created an Animation. Top 5 from Bishop Cotton Women's Christian College**



## Graduating Class of BCA 2019-20





## The Editorial Team

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Principal

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**Mrs. Suja D Shanthi**

Head, Dept Of Computer Science

**Mrs. Jayakiruba**

Faculty, Dept of Computer Science

Student Co-Ordinator

**Sauda Fathima, II BCA**

Student Editor

**Monika K.L, I BCA**





