



JSS MAHAVIDYAPEETHA

**JSS COLLEGE FOR WOMEN, CHAMARJANAGAR**

**DEPARTMENT OF COMPUTER SCIENCE**  
**Department Activities 2017- 22**



JSS MAHAVIDYAPEETHA

## JSS COLLEGE FOR WOMEN, CHAMARJANAGAR

### DEPARTMENT OF COMPUTER SCIENCE

#### Consolidated Department Activities 2017-22

Sl No	Date	Event Details	Resource Person	No of Participants
1.	26.03.2018	Special lecture program on “Biometric applications and challenges”	Dr Bharathi R K SJCE, Mysore	120
		Special lecture program on Networking- Routing Algorithms	Dr Raghuveer K, NIE Mysore	
2.	18.01.2021 to 19.01.2021	2 Days National Level Virtual Workshop on “Digital Image Processing Using Python – For Beginners”-	1. Dr. Kouser, Asst. Prof, GFGC Gundlupet 2. Dr. Lavanya PG, Asst. Prof, Govt. Autonomus College, Mandya 3. Dr Rashmi B S, Asst. Prof, Dept of IT, KSOU, Mysuru	150
3.	03.08.2021 to 06.08.2021	National Level E-Quiz on “WEB PROGRAMMING”		120
4.	14.08.2021	“Dreamers & Doers –An Interaction program” with Alumnae of the Department	1. Ms. Megha K S, Software Engineer, CENCUIT an IQVIA Business, Bangalore 2. Ms. Indushree, Process Specialist INFOSYS, Mysuru 3. Ms. Nandini R. V, Teacher, VHP Public School, Chamarajanagar 4. Bhramarmaba D S, Software Engineer, Torry Harris Integration Solutions, Bangalore 5. Geetha P, Former Software Engineer, Keonics Yuvacom	90

6.	16.06.2022	One day Faculty Development Program on “Learning Management System” for Teaching staff	Mrs. Shubha L N HOD & Asst. Professor Dept. of Computer Science	45
7.	18.07. 2022	Special Lecture on “Cyber Security, Testing and Cloud Apps”	Mr. Yogananda M P, Senior Project Engineer, Wipro, Bangalore	120
8.	12.08.2022	One day Workshop on “Tally ERP9” for the non teaching staff	Mrs. Shubha L N HOD & Asst. Professor Dept. of Computer Science	15
9.	29.11.2022	One day workshop on Digital Image Processing	1. Dr. Chandrajit, Asst. Prof, Dept. of MCA, MIT, Mysore 2. Dr. Shobha Rani N Asst. Prof and Research Convener, Dept. of Computer Science, Amrita Viswa Vidyapeetham, Mysore	150
10.	09.01.2023	Industrial visit to Excelsoft, Mysore		85
11.	14.01.2023	Industrial visit to Infosys, Mysore		95
12.	06.01.2023 to 07.01.2023	Two days Educational Trip to Chikkamangalore		17



JSS MAHAVIDYAPEETHA

# **JSS COLLEGE FOR WOMEN, CHAMARAJANAGAR**

THE DEPARTMENT OF COMPUTER SCIENCE

A REPORT ON

**Special Lecture Program - on**

**Biometric applications and challenges & Networking- Routing Algorithms**

**26.03.2018**

The Department of Computer Science organized a special lecture on **Biometric Applications and Challenges & Networking- Routing Algorithms** on 26.03.2018. Around 120 students participated in the program. Dr. Rajesh K M, HOD, Dept. of Computer Science, welcomed the principal, the resource persons- Dr Bharathi R K SJCE, Mysore, Dr Raghuveer K, NIE Mysore and the gathering,

Session I:

Time: 10.30 AM – 12.00 PM

Resource Person: Dr Bharathi R K SJCE, Mysore

Topic: “Biometric applications and challenges”

Dr. Bharthi R K, introduced the Biometric applications in the field of computer science. She explained the image captured through various devices and how they are used for different purposes as financial identification, verification, and authentication in commerce help make banking, purchasing, and account management safer and more convenient and responsible. She also explained the challenges as accuracy and reliability of biometric systems.

Session II:

Time : 12.00 PM - 1.30 PM

Resource Person: Dr Raghuveer K, NIE Mysore

Topic: Networking- Routing Algorithms

Dr. Raghuveer K, discussed the various Networking Routing Algorithms as Dijkstra's algorithm, dynamic routing algorithm, static routing algorithm, simplest routing, greedy algorithm, fastest routing etc. He also explained the various tools used in networking.

Sri A G Shivakumar, Principal, in his presidential address, instructed to conduct special lecture programs on subjects related to the curriculum and which will facilitate higher education of the students. He congratulated the guests who had arrived as resource persons.

Mrs. Shubha LN, Asst. Prof, proposed vote of thanks.





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# JSS COLLEGE FOR WOMEN, CHAMARAJANAGAR

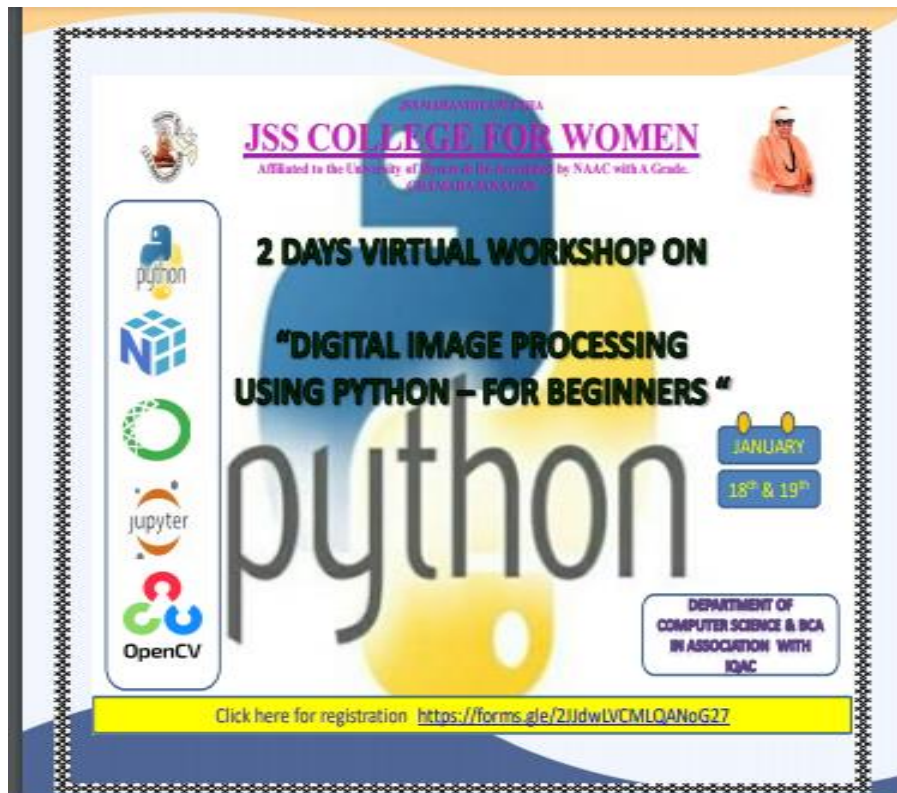
THE DEPARTMENT OF COMPUTER SCIENCE

A REPORT ON

**TWO DAYS VIRTUAL WORKSHOP ON**  
“DIGITAL IMAGE PROCESSING USING PYTHON -FOR BEGINNERS”

18<sup>TH</sup> AND 19<sup>TH</sup> JANUARY 2021

DEPARTMENT OF COMPUTER SCIENCE



Invitation

The **Department of Computer Science & BCA** with the support of JSS Mahavidyapeetha, organised 2 days **National level virtual workshop on “Digital Image Processing Using Python for Beginners”** on 18<sup>th</sup> & 19<sup>th</sup> January 2021. Around 150 participants comprising of faculty, research scholars and students registered themselves for the workshop, among which around 100 actively participated and have responded positively regarding the workshop. The workshop was organized on Google Meet platform. The workshop sessions were organized in the seminar hall for the final year BCA and BSc (PMCs) students. The Workshop was commenced with an opening remark by **Mrs Shubha L N**, HOD, Dept. of Computer Science and Organising Secretary of Workshop, wherein she extended a warm welcome to Principal, Resource Persons - **Dr Rashmi B S, Dr Kouser, Smt Lavanya P G**, the participants and students on behalf of the Management and the College.

Date: 18.01.2021

Time : 2.00 pm – 3.10 pm

Resource Person : Dr Rashmi B S, Asst. Prof, Dept of IT, KSOU, Mysuru

Topic: Brief Introduction to DIP

Dr Rashmi B S delivered the lecture through digital media by power point presentation. In her speech she explained the basic concepts of DIP, the various operations on digital images as image acquisition, image enhancement, image restoration, morphological processing, segmentation, object recognition, image compression, image convolution etc. She also explained the different phases of DIP and how different types of images are represented in matrix format (binary), how colour image and gray images are represented and how we can use various mathematical functions on images. She also narrated the different algorithms and their pros and cons. The presentation was appealing as the resource person used many GIFs, Videos and Images.

#### **Question Answer Session:**

In the question and answer session several participants expressed their opinion and raised questions.

<b>Name</b>	<b>Question</b>
Niveditha H D	How to filter image from intensity and threshold frequency?
Bhavani S D	How the values for Convolution kernel are selected?
Jonmenjoy Barman	How to correct sink in image?
Shubha L N	Is DIP boon or bane?

Dr Rashmi B S responded to the questions and doubts raised by the participants.

Date: 18.01.2021

Time : 3.20 pm – 4.30 pm

Resource Person: Smt Lavanya P G, Asst. Prof, Dept. of CS, GFGC (Autonomous), Mandya.

Topic : Introduction to Python & Google Colab

Smt Lavanya P G delivered the lecture through a power point presentation. In her speech she explained about various general purpose high level programming languages, which are widely use in image processing. Among which Python is the leading language. She also briefed about the founder of Python. She explained the features, IDEs, Data types, Libraries/Packages, Functions etc of Python languages. As various versions of Python are free sources, she narrated the steps to download the software. She also explained the basics of Google Colab and its uses. She demonstrated Google Colab and Python programs.

#### **Question Answer Session:**

In the question and answer session several participants expressed their opinion and raised questions.

Name	Question
Shubha L N	What harm may DIP cause on big data and artificial intelligence?
Prachetha Jain	What are the career opportunities in DIP?

Smt Lavanya P G responded to the questions and doubts raised by the participants.

Date: 19.01.2021

Time : 2.00 pm – 4.30 pm

Resource Person: Dr. Kouser, Asst. Prof, Dept. of CS, GFGC, Gundlupet

Topic : Image processing concepts with illustration & program demonstration in Google Colab

Dr Kouser explained the basic concepts of image processing through a power point presentation, where she used many GIFs, video and images. She illustrated various DIP concepts with example programs. She explained the histogram, histogram equalization, filtering – sharpening & smoothening, different distance calculation methods – Euclidean, chessboard, Cityblock, Edge Detection – sobel, canny's etc with example programs. She narrated how the RGB concept in DIP image representation is used. She also briefed the difference between operations on gray scale images and colour images. She also explained mathematical formulas and calculation for the programs.



### Question Answer Session:

In the question and answer session several participants expressed their opinion and raised questions.

Name	Question
Rajeshwari	Why do we convert colour image to gray image before generating histogram?
Swethanandini B	Application of Edge detection.

Dr. Kouser responded to the questions and doubts raised by the participants.

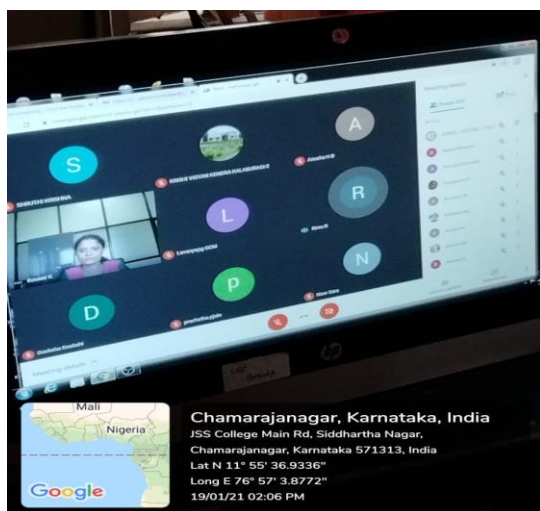
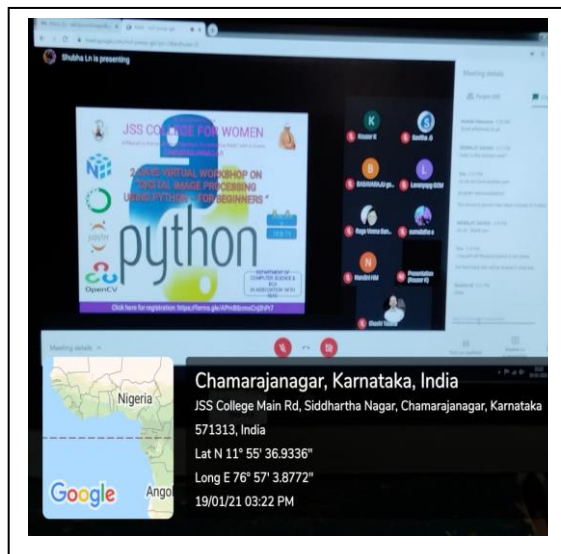
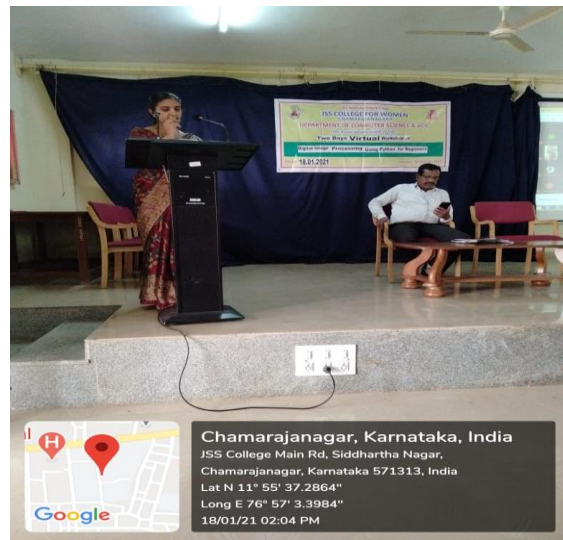
Valedictory: 4.30 pm – 4.40pm

The Workshop was concluded with valedictory at 4.30 pm. Kum Prachetha Jain III BCA, Proposed vote of thanks. She expressed her gratitude for the constant support and encouragement by the Management and the College in conducting the workshop. She extended her heart-felt thanks to all the resource persons Dr Rashmi B S, Smt Lavanya P G, Dr Kouser for enlightening speech; she extended her thanks to the Prof. K S Mariswamy, Principal, Smt. Revanamba B, IQAC coordinator and all CS dept staff for technical support. She extended her thanks to all the participants, students for making the workshop a grand success.

### Schedule of workshop

Date & Day	Time	Resource Person	Topic
18.01.2021 (Monday)	2.00 pm – 2.10pm	Inauguration	
	2.10 pm – 3.10 pm	Dr Rashmi B S	• Brief Introduction to DIP
	3.10 pm - 4.10pm	Smt Lavanya P G	• Introduction to Python & Google Colab • Program Demonstration
19.01.2021 (Tuesday)	2.00pm – 4.00 pm	Dr Kouser	• Image Processing Concepts with illustration. • Program demonstration in Google Colab
	4.00 pm – 4.15 pm	Valedictory	

## Snapshots of the Workshop:





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 CHAMARAJANAGAR









## 2 DAYS VIRTUAL WORKSHOP ON "DIGITAL IMAGE PROCESSING USING PYTHON – FOR BEGINNERS"

**python**

**JANUARY**  
**18<sup>th</sup> & 19<sup>th</sup>**

DEPARTMENT OF  
 COMPUTER SCIENCE & BCA  
 IN ASSOCIATION WITH  
 IQAC

Click here for registration <https://forms.gle/2JJdwLVCMLOANoG27>

### Virtual Workshop invitation

**Dear Sir/Madam,**

Greetings from JSS COLLEGE FOR WOMEN, CHAMARAJANAGAR.

The department of Computer Science and BCA in association with IQAC, is organizing 2 days virtual workshop on **"DIGITAL IMAGE PROCESSING USING PYTHON - FOR BEGINNERS"**

- **Date:** 18<sup>th</sup> & 19<sup>th</sup> January 2021
- **Registration Details:**
  - Mode of Conduction: online mode.
  - Platform : Google meet
  - Registration link: <https://forms.gle/2JJdwLVCMLOANoG27>
  - The workshop link will be shared 10 mins before workshop.
  - **No registration fees**
- The program schedule will be shared in whatsapp group.
- E-Certificates will be provided to all the registered attendees, after submission of Feedback Form on both days.



**Resource Persons Details:**

**1. Dr. Kouser**

Assistant Professor

Department of Computer Science

GFGC-GUNDLUPET, University of Mysore

**2. Smt . Lavanya P G**

Assistant professor

Department of Computer science

Government College (Autonomous), Mandya

**3. Dr. Rashmi B.S.**

Assistant Professor

Department of Information Technology,

Mukthagangothri, Karnataka State Open University, Mysore.

*We cordially invite Research Scholars, Faculty Members, Professors and Colleagues to attend this workshop.*

**For any queries kindly contact:**

**Convener:**

**Smt Shubha L N**

HOD, Dept of CS & BCA

9901598881

**With Regards**

**Principal**

**JSS College for Women, Chamarajanagar**



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**JSS COLLEGE FOR WOMEN**

(Affiliated to University of Mysore & Re-Accredited By NAAC with 'A' grade)  
Chamarajanagara : 571313.



*Two Days National Level Virtual Workshop On  
"Digital Image Processing Using Python For Beginners "*

**E - CERTIFICATE**

This is to certify that Mrs/ Ms

has participated in the workshop on 18<sup>th</sup> January 2021 and 19<sup>th</sup> January 2021 organized by department of Computer Science and BCA and IQAC, JSS College for Women, Chamarajanagara.

*Shubha L N*

**Smt.Shubha L.N**  
Convener

*Revana B*

**Smt.Revanamba.B**  
IQAC Coordinator

*K.S. Mariswamy*

**Prof.K.S.Mariswamy**  
Principal



JSS MAHAVIDYAPEETHA

# JSS COLLEGE FOR WOMEN, CHAMARAJANAGAR

THE DEPARTMENT OF COMPUTER SCIENCE

A REPORT ON

**E-Quiz on "WEB PROGRAMMING"**

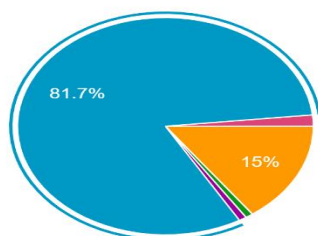
**From 03.08.2021 To 06.08.2021**

The **Department of Computer Science & BCA** organised E-Quiz on “WEB PROGRAMMING” from 03.08.2021 to 06.08.2021 to all the Academicians, Students using Google Quiz Platform. Around 120 participants comprising of faculty, research scholars and students participated in the E-Quiz.

Sl No	Designation	No. of Participants	Percentage
1	Students	98	81.7
2	Assistant Professor	18	15
3	Research Scholar	01	0.8
4	Teacher	01	0.8
5	Others	2	1.7
	<b>Total</b>	<b>120</b>	<b>100</b>

## Graphical Representation of Participants:

Designation  
120 responses



- Professor
- Associate Professor
- Assistant Professor
- Research Scholar
- Teacher
- Student
- Other



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# JSS COLLEGE FOR WOMEN, CHAMARAJANAGAR

THE DEPARTMENT OF COMPUTER SCIENCE

A REPORT ON

Interaction Program

**“Dreamers & Doers”**



**JSS MAHAVIDYAPEETHA**  
**JSS COLLEGE FOR WOMEN, CHAMARAJANAGAR**  
Affiliated to University of Mysore and Re -Accredited by NAAC with 'A' Grade (CGPA – 3.02)



Department of Computer Science & BCA  
an  
Interaction Program

**“Dreamers & Doers”**

 <p><b>Bhramaramba D S</b> Software Engineer Torry Harris Integration Solutions Bangalore</p>	 <p><b>Indushree</b> Process Specialist INFOSYS, Mysuru</p>	 <p><b>Megha K S</b> Software Engineer CENCUIT an IQVIA Business Bangalore</p>	 <p><b>Geetha P</b> Former Software Engineer Keonics Yuvacom Mysuru</p>	 <p><b>Mangallamma</b> Former CRO HGS (Hinduja Global Solutions), Mysuru</p>	 <p><b>Nandini R V</b> Teacher VHP Public School Chamarajanagar</p>
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APP : Zoom      Time : 5 : 00 PM      Date : 14<sup>th</sup> August 2021



**JSS MAHAVIDYAPEETHA**  
**JSS COLLEGE FOR WOMEN, CHAMARAJANAGAR**  
Affiliated to University of Mysore and Re -Accredited by NAAC with 'A' Grade (CGPA – 3.02)

Department of Computer Science & BCA  
an  
Interaction Program

**“Dreamers & Doers”**

**Bhramaramba D S**  
Software Engineer  
Torry Harris Integration Solutions  
Bangalore

**Indushree**  
Process Specialist  
INFOSYS, Mysuru

**Megha K S**  
Software Engineer  
CENCUIT an IQVIA Business  
Bangalore

**Geetha P**  
Former Software Engineer  
Keonics Yuvacom  
Mysuru

**Mangallamma**  
Former CRO  
HGS (Hinduja Global  
Solutions), Mysuru

**Nandini R V**  
Teacher  
VHP Public School  
Chamarajanagar

APP : Zoom      Time : 5 : 00 PM      Date : 14<sup>th</sup> August 2021

The **Department of Computer Science & BCA** organised an Interaction Program titled “DREAMERS AND DOERS” on 14<sup>th</sup> August 2021 at 5.00pm on Zoom Platform. The main intension of the program was to provide a platform to the present students who is studying in BCA and BSc (PMCs) to interact with the alumnae of the department who is presently working in different sectors.

**The Alumnae Details:**

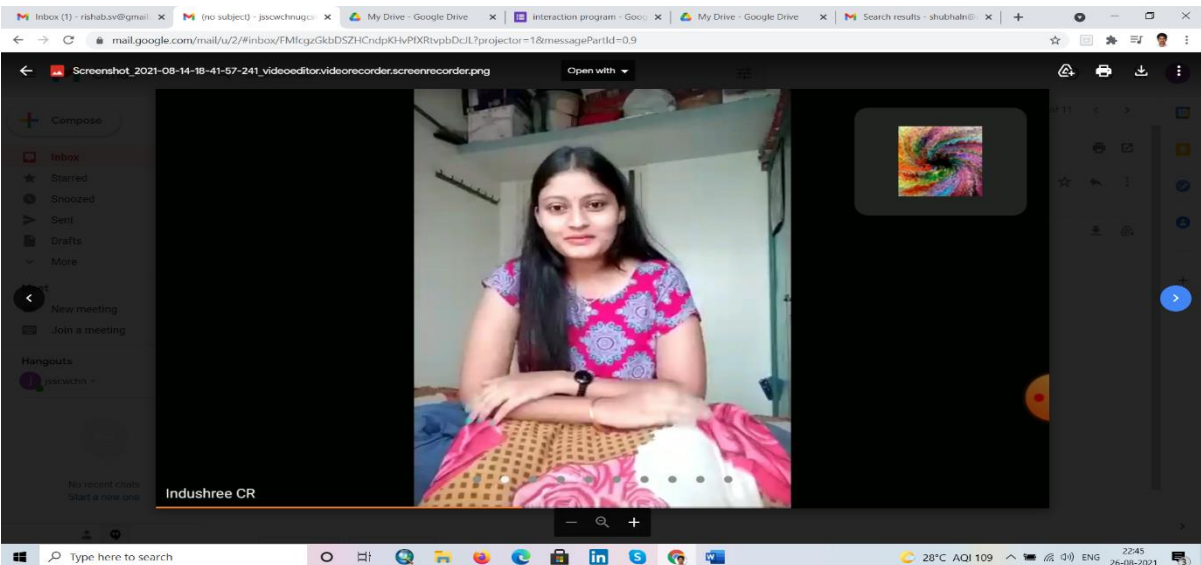
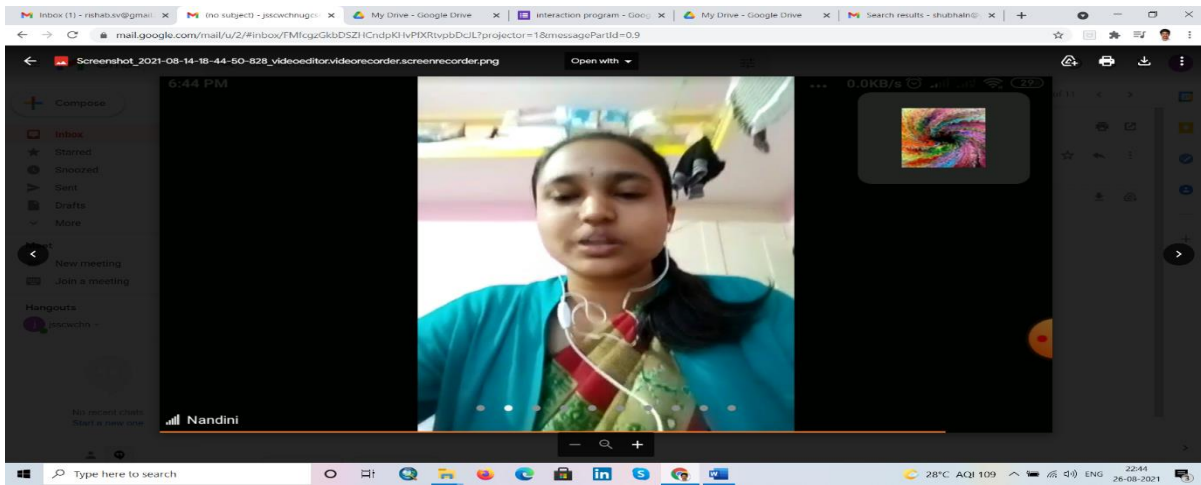
Sl No	Name	Designation
1	Bhramaramba D S	Software Engineer, Torry Harris Integration Solutions, Bangalore
2	Indushree C S	Process Specialist, INFOSYS, Mysuru
3	Megha K S	Software Engineer, CENCUIT an IQVIA Business, Bangalore
4	Geetha P	Former Software Engineer, Keonics Yuvacom, Mysuru
5	Mangallamma	Former CRO, HGS (Hinduja Global Solutions), Mysuru
6	Nandini R V	Teacher, VHP Public School, Chamarajanagar

Around 90 students attended the meet and clarified their doubts. The topic discussed is as under:

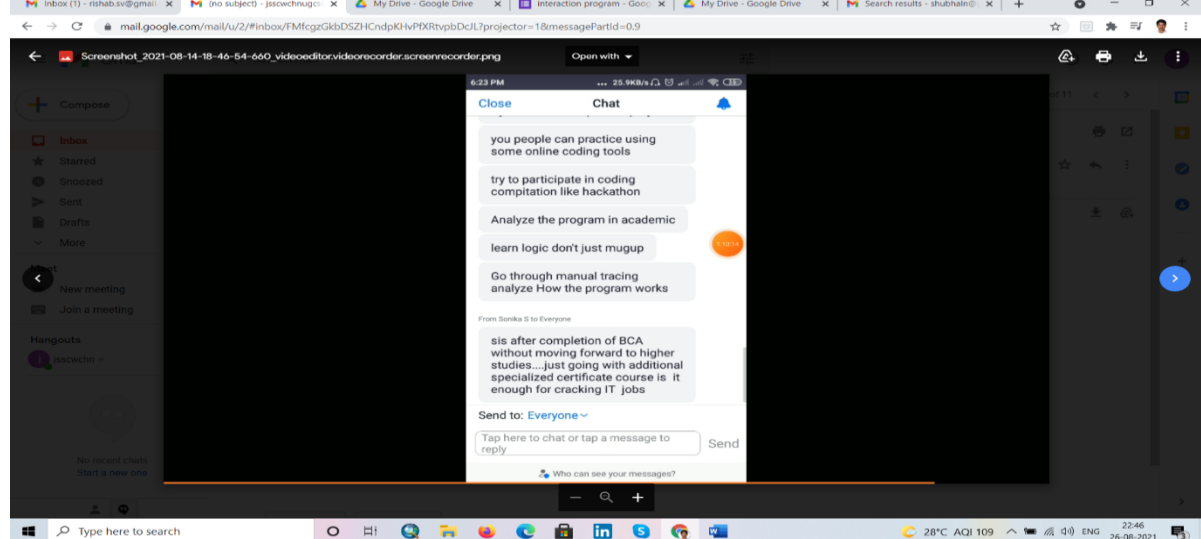
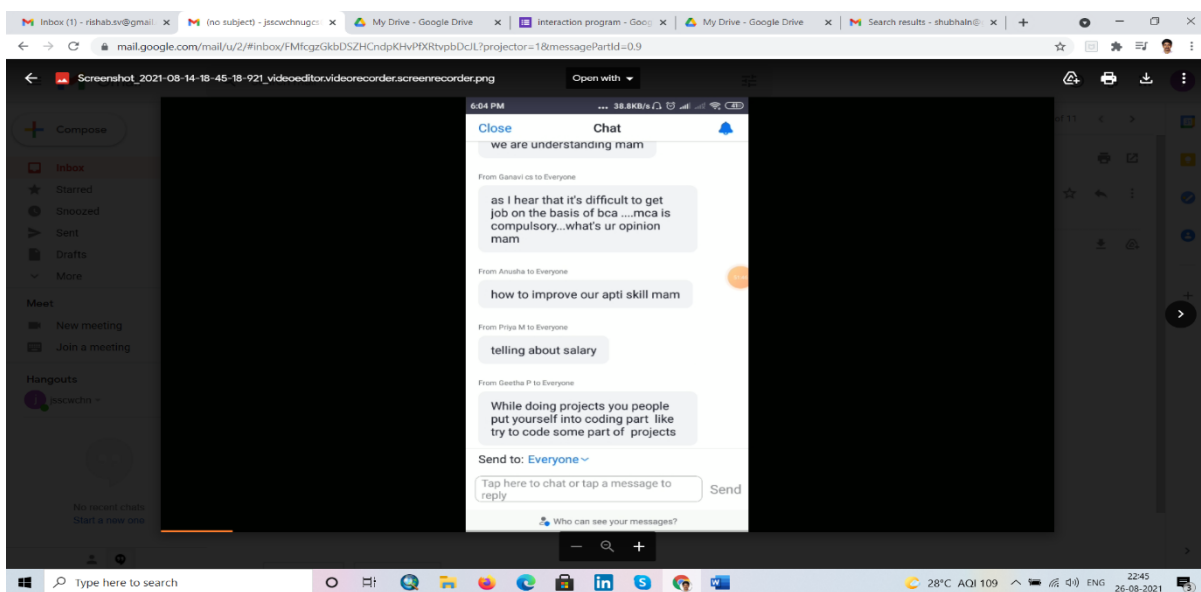
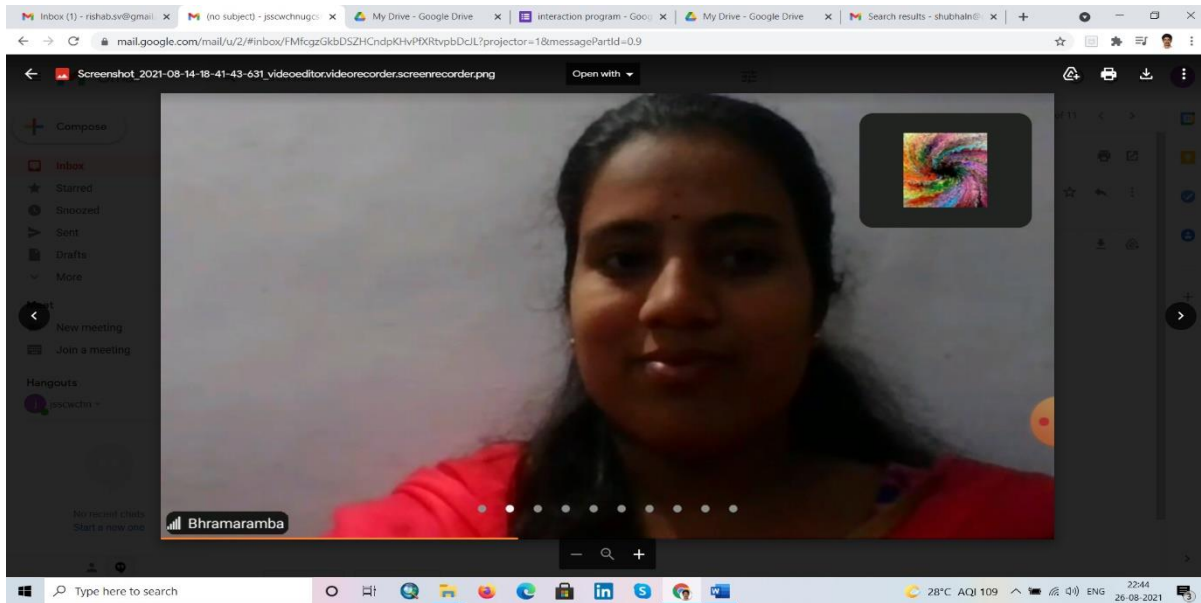
1. Career options after graduation
2. Resume preparation
3. Personality / skill development
4. Higher Studies
5. Preparation for Aptitude test
6. Group discussion
7. Short term courses
8. Interview
9. Consultancies and websites
10. Using social media to job hunt.

The Alumnae shared their experience regarding their studies and how they cracked their interview and guided the students in this regard. They also guided the students about the opportunities avail in the corporate world and clarified their doubts. The above topics were also discussed.

**Snapshots of the program:**









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# **JSS COLLEGE FOR WOMEN, CHAMARAJANAGAR**

## **THE DEPARTMENT OF COMPUTER SCIENCE**

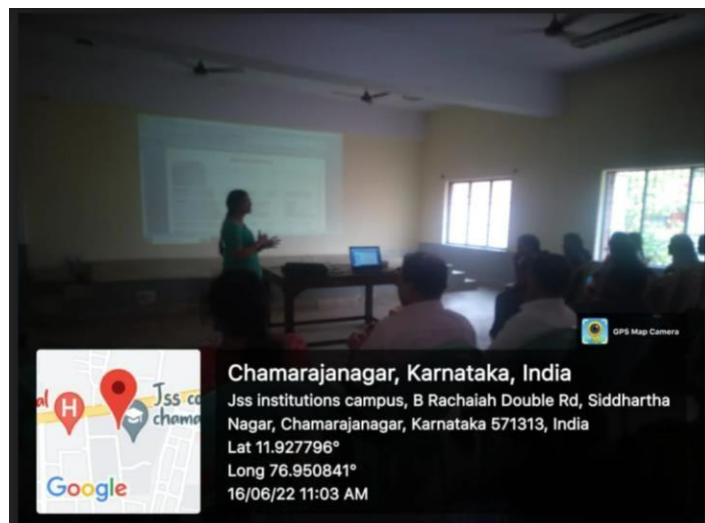
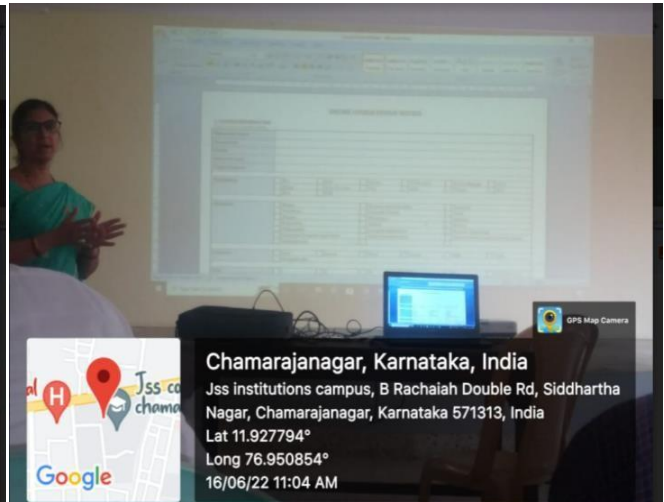
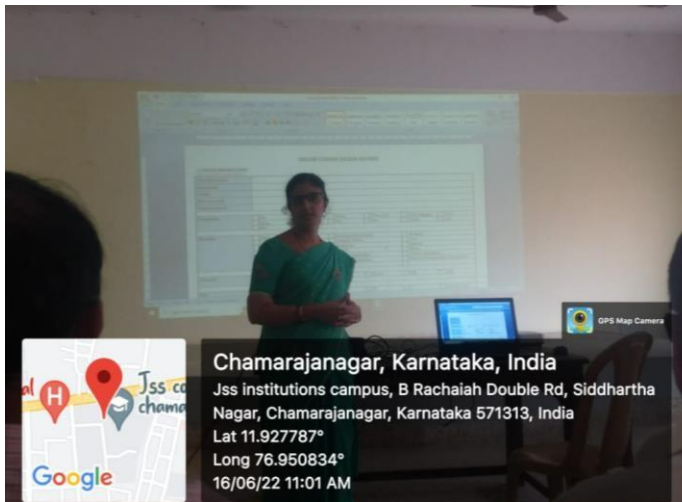
### **A REPORT ON**

### **A Report on LMS - Faculty development program**

A one day Faculty Development Program on **Learning Management System** was organized by the department of computer science on 16/06/2022 at old Seminar hall at 10.30 AM for the teaching staff. Smt. Shubha L N, Head of the Department of Computer Science, explained the importance of LMS in comprehensive learning. The LMS enables educators to develop courses, deliver instruction, facilitate communication, encourage student collaboration, assess student success, and provide additional learning resources for support, all while assisting educational institutions in maintaining the integrity of their educational programmes. In her lecture she also gave information regarding the steps taken by the Indian Government for the implementation of LMS. The various websites such as MOOC, Swayam etc launched by the Indian Government are great platforms for open online courses learning. In India more than 400 educational institutions have adopted LMS for blended learning and many courses are being offered through the LMS platform. She also narrated the opportunities for the teachers under LMS and how they can add to their earnings by LMS.

Smt Shubha L N illustrated the creation and usage of LMS using Moodle.com. The various steps to create a moodle account, to create a course, add course content, add users, add students, add teachers, the assessment scheme as quiz, assignment, etc., the evaluation of students, the attendance of the students etc with example.

Smt. Shubha L N also explained the online data creation tools for the LMS including PowerPoint, FreeCam, OBS Studio, PDF, Quiz Maker, Google Drive, etc for generating videos and other data formats. She explained the procedure to download and install the softwares and how to use the same with examples. She also illustrated the steps to create video using powerpoint, freecam, live video streaming in OBS and to upload the same in youtube. In her lecture she illustrated the steps to create a youtube channel and the steps to share the video's link in LMS platform, through google drive, whatsapp, email etc. She also demonstrated how to organize data in Google Drive and share the link in an LMS with examples.





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# **JSS COLLEGE FOR WOMEN, CHAMARAJANAGAR**

## **THE DEPARTMENT OF COMPUTER SCIENCE**

A REPORT ON

### **CYBER SECURITY, TESTING AND CLOUD APPS**

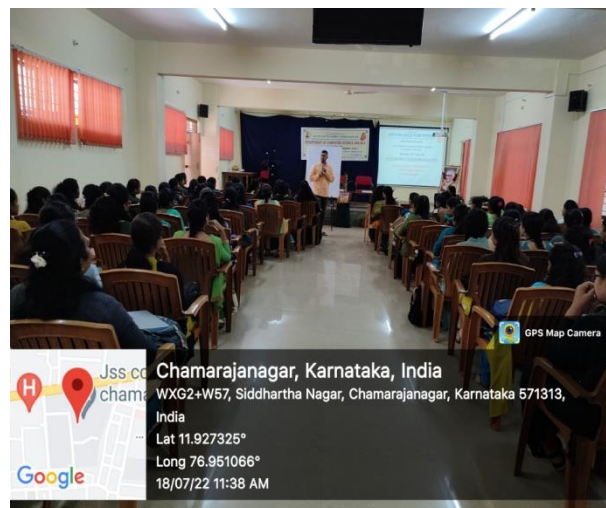
On 18.07.2022, the department of Computer Science and BCA in association with IQAC organized a special lecture on “**Cyber security, testing and cloud apps**”. Miss Aruna S, II BCA, invoked the program. Miss Sushma, III BCA warmly welcomed the gathering. The lecture was attended by BCA, BSc (PMCs), MCs students and the staff. The lecture was delivered by Mr. Yogananda M P, Senior Project Engineer, Wipro, Bangalore.

Mr. Yogananda M P explained the significance of Cyber security, testing and cloud computing in today’s network world. He described the different threats, risk, gaps in security control and the performance of security programs. He also narrated the tools used to handle the above security issues as Network security monitoring tools, Encryption tools, Web vulnerability scanning tools, Penetration testing, Antivirus software, Network intrusion detection, Packet sniffers, Firewall tools etc. The different testing tools QC (quality assurance, quality control and quality testing tools) as QTP, salesforce, text tool document, Mongo DB etc.

Mr. Yogananda M P interacted with the students and answered their queries regarding facing interviews, higher studies, approaching the HRs of companies, what are the job opportunities after BCA and BSc (computer science) etc. Mr. Yogananda M P, suggested the students to improve their skills in their interested fields as programming, testing, networking etc. He also guided the students to do some online free courses available in udemy, Swayam, MOOC and some IIT, NIT colleges also offer free short term courses. He described how the social network websites can be utilized to grab jobs.

Miss Gagana, III BCA proposed vote of thanks, Miss Anjali S, III BSc(PMCs) compeered the program.







# JSS COLLEGE FOR WOMEN, CHAMARAJANAGAR

## THE DEPARTMENT OF COMPUTER SCIENCE

### A REPORT ON

#### One day workshop on – Introduction to Tally ERP 9

On 12/08/2022 one day workshop on Introduction to Tally ERP 9 was organized by the Department of Computer Science and BCA in association with IQAC to the non-teaching faculties of the college.

#### **Resource Person:**

Mrs. Shubha L N, HOD, Dept of CS and BCA, JSS College for Women, Chamarajanagar

#### **About Tally:**

Tally ERP 9 is the ideal business management tool and GST software. Tally. ERP 9 enables business owners and their associates to do more things to an ideal balance of function, control, and customizability built in. It is a full-featured product that maintains its original simplicity while providing extensive business functionalities like Accounting, Finance, Inventory, Sales, Purchase, Point of Sales, Manufacturing, Costing, Job Costing, Payroll, Branch Management, as well as GST compliance capabilities. With its wealth of features for quick and simple GST return filing, Tally.ERP 9 Release 6 assists tax advisors and business owners in reducing the number of returns that are rejected by the GSTN portal.

#### **About the session:**

The workshop began with the introduction of tally ERP 9 software and its advantages over tally 7. Mrs. Shubha L N, explained the steps of company creation along with an illustration. The main focus of this session was various types of accounting data, entries, etc. A thorough discussion was held on the subject of accounting information, including what groups and ledgers are. The creation of stock groups, stock items, and units of measurement was taught to faculty members. The vouchers available in tally and how tally help the user by not recording the wrong entries were also explained. Each voucher was explained with example business transaction. The resource person also discussed about the various reports generated by the tally as balance sheet, trial balance, day book etc.,. The F11 and F12 features in tally were discussed. She provided information regarding maintaining group ledgers, inventory, and the various entries for a specific



company. Participants received information on the subject of taxation as well. The entire TallyERP workshop was very educational, engaging, and knowledgeable.



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Affiliated to the University of Mysore & Accredited by NAAC with 'A' Grade with 3.02 CGPA



**DEPARTMENT OF COMPUTER SCIENCE & BCA**

**One Day Workshop on Introduction to Tally ERP9**



By: **Mrs. Shubha L N**  
HOD, Dept of CS & BCA  
JSS College for women, Ch\_nagar





JSS MAHAVIDYAPEETHA

# **JSS COLLEGE FOR WOMEN, CHAMARAJANAGAR**

## **THE DEPARTMENT OF COMPUTER SCIENCE**

### **A REPORT ON**

### **One day workshop on – Digital Image Processing**

On 29.11.2022, the department of Computer Science and BCA in association with IQAC organized one day workshop on – Digital Image Processing. Miss Aruna S, III BCA, invoked the program. The program was inaugurated by the Mr. Siddaraju G, Principal, Dr. Chandrajit M, Asst. Prof, Dept. of MCA, MIT College, Mysore, Dr. Shobha Rani N, Asst. Prof, Resource Convenor, Dept. of CS, Amrutha Vishwa Vidyapeetham, Mysore, Mrs. Shubha L N, HOD, Dept of CS & BCA by watering the plant. Mr. Nandeesh P, Asst. Prof, Dept. of CS & BCA warmly welcomed the gathering.

Technical Session I: 11.30 AM

Topic: Fundamentals of Digital Image Processing

Resource Person: Dr. Chandrajit M, Asst. Prof, Dept. of MCA, MIT College, Mysore

Dr.Chandrajit M commenced the session by interacting with the students about basic knowledge of computer science and check creative thinking of the students by assigning them to write down the steps on how the human brain identifies the objects. He opinioned "computer science is nothing but common sense" and it is very essential in today's technical world.

He compared the digital camera to human eyes as a sensory device. He differentiated the cognition and recognition, Machine learning and Artificial intelligent. He described, what is Digital Image Processing? With various illustrations followed by a representation - on how to store an image in array data type. He also distinguish the different types of images like Binary, gray and thermal images. He narrated the key stages of Digital Image Processing, Image Acquisition, Image Enhancement, Image Restoration, Segmentation, Convolution and Frequency Domain Analysis.

Dr. Chandrajit M interacted with the students and answered their queries, and suggested the tools used to handle DIP like MATLAB, Opencv, Tensor flow, Keras etc. and provided information



regarding books of renowned authors in the field of DIP, research papers, web tutorials, web links etc related to DIP.

Dr.Chandrajit M explained the significance of Cyber security, testing and cloud computing in today's network world. He described the different threats, risk, gaps in security control and the performance of security programs. He also narrated the tools used to handle the above security issues as Network security monitoring tools, Encryption tools, Web vulnerability scanning tools, Penetration testing, Antivirus software, Network intrusion detection, Packet sniffers, Firewall tools etc. The different testing tools QC (quality assurance, quality control and quality testing tools) as QTP, sales force, text tool document, Mongo DB etc.

Technical Session II: 2.30 PM

Topic: Applications of Digital Image Processing

Resource Person: Dr. Shubha Rani N, Asst. Prof and Research Convener, Dept. of Computer Science, Amrita Viswa Vidyapeetham, Mysore.

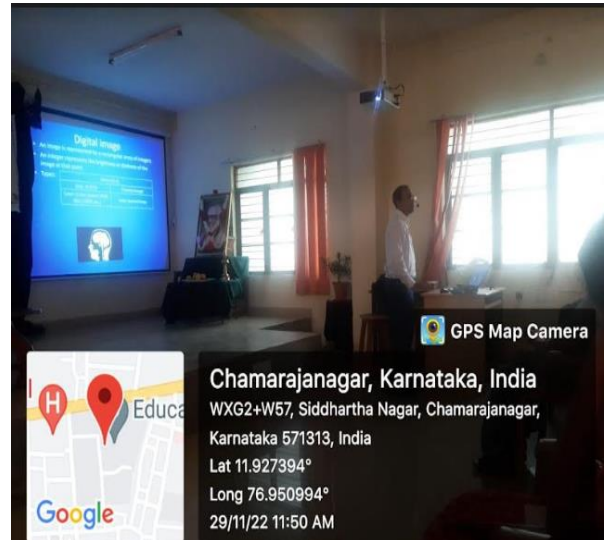
Session was conducted by Dr. Shubha Rani N, by recalling the previous session by Dr.Chandrajit M.

She mentioned "There are no barriers to work for success." we learn by doing and overcome the mistakes.

Dr Shubha Rani N, explained the history and applications of Digital Image Processing and also explain the examples like Hubble telescope, Artistic effects, Medicine, Geographic information System, Industrial Inspection, PCB inspections, Law enforcement, human computer interaction etc. She narrated the types of images, finger prints, Iris, face detection, audio, palm shape, Google deep mind and also agriculture and Industrial applications.

She illustrated the application of DIP with a brief explanation about leaf diseases detection. She continued the session with application of Digital image processing in target recognition, Autonomous Vehicle, Face recognition, Hand gesture and medical applications etc.

Mrs. Chaithra S, Asst. Prof. Dept of CS and BCA proposed vote of thanks, Miss Pooja H V, Asst. Prof. Dept of CS and BCA compeered the program.





JSS MAHAVIDYAPEETHA

# JSS COLLEGE FOR WOMEN, CHAMARAJANAGAR

## THE DEPARTMENT OF COMPUTER SCIENCE

### A REPORT ON

INDUSRIAL VISIT TO MICROSOFT EXCEL – MYSORE ON 09.01.2023



The department organized an Industrial visit to Excelsoft, Mysore on 09.01.2023 for the computer science students. 85 students along with teachers were part of the visit..





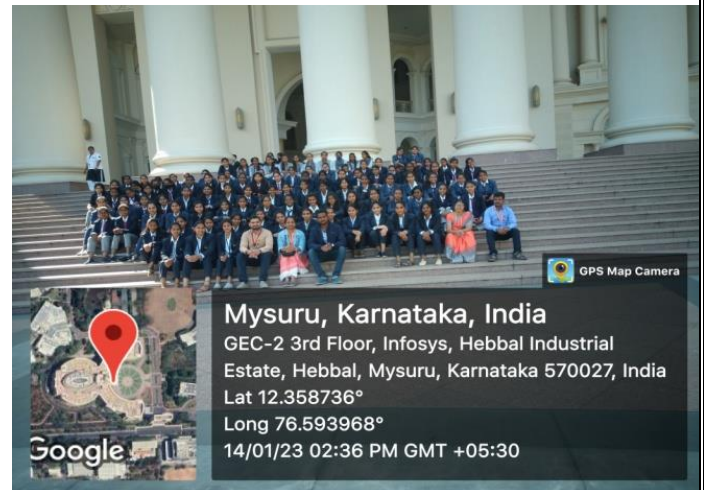
JSS MAHAVIDYAPEETHA

# JSS COLLEGE FOR WOMEN, CHAMARAJANAGAR

## THE DEPARTMENT OF COMPUTER SCIENCE

### A REPORT ON

INDUSRIAL VISIT TO INFOSYS – MYSORE ON 14.01.2023



The department organized an Industrial visit to INFOSYS, Mysore on 14.01.2023 for the computer science students. 95 students along with teachers were part of the visit.



JSS MAHAVIDYAPEETHA

## **JSS COLLEGE FOR WOMEN, CHAMARAJANAGAR**

### **THE DEPARTMENT OF COMPUTER SCIENCE**

#### **A REPORT ON**

Two days Educational Trip to Chikkamangalore on 06.01.2023 and 07.01.2023



Two days Educational Trip to Chikkamangalore on 06.01.2023 and 07.01.2023 was organized by the department. 17 students with teachers were part of the trip.