

**SRI VENKATESWARA COLLEGE OF ENGINEERING (SVCE)  
PENNALUR, SRIPERUMBUDUR-602117**



## ***Reflection Report***

### ***Guest Lecture***

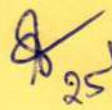
***on***

### ***“Programming Nuances in Data Structures”***

***(As a part of the course CS22303 – Data Structures)***

**September 20, 2024**

**Venue: Biotech Conference Hall**

  
25/9/2024

**Coordinators:**

**Dr. S. Rajalakshmi, ASP/CSE  
Ms. J. Buvana, AP/CSE  
Ms. S. Janani, AP/CSE**

  
25/9/24

**Convenor:**

**Dr. R. Anitha  
Prof. & HoD/CSE**

**SRI VENKATESWARA COLLEGE OF ENGINEERING (SVCE)  
PENNALUR, SRIPERUMBUDUR-602117**



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**Sri Venkateswara College of Engineering  
(Autonomous - Affiliated to Anna University)  
Pennalur, Sriperumbudur - 602 117**

**Department of Computer Science and Engineering**

September 12, 2024.

**Submitted to HOD / CSE:**

Dear Madam,

**Sub:** Requisition to conduct a Guest Lecture on Programming Nuances in Data Structures - reg.

On behalf of the Department of Computer Science and Engineering, we would like to organize a "**Guest Lecture on Programming Nuances in Data Structures**" on **September 20, 2024**. As a part of the **Course CS22303 – Data Structures** (currently offered for II Year CS students), this event aims to give the idea of how to master the concepts of data structures and their nuances. This equips students with the tools needed to write efficient code, solve complex problems, and understand the underlying principles of computer science.

The resource person for the guest lecture is:

Mr. A. Balaji,  
(SVCE Alumnus: 2020-2024, CSE)  
Upcoming System Engineer, TCS  
Content Creator @Conquer Victory

As this foundational knowledge is crucial for academic success and future career opportunities, kindly grant permission to organize the event. Kindly consider and do the needful.

**Co-ordinators:**

Dr. S. RAJALAKSHMI, ASP/CSE

Ms. J. BUVANA, AP/CSE

Ms. S. JANANI, AP/CSE

*[Handwritten signatures and dates]*  
12/9/2024  
12.9.24  
12/9/24

*[Handwritten signature]*  
12/9/24

**Convenor:**

Dr. R. Anitha,  
Prof & Head, Dept. of CSE.



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

Guest Lecture on

# **PROGRAMMING NUANCES IN DATA STRUCTURES**

**MR. BALAJI A**

**(SVCE ALUMNUS:2020-2024)**

**UPCOMING SYSTEM ENGINEER, TCS PRIME  
CONTENT CREATOR@ CONQUER VICTORY**



**20 SEPTEMBER 2024**



**1:30 P.M-3:00 P.M**



**BIOTECHNOLOGY CONFERENCE HALL**



## **Faculty coordinators:**

**Dr. S. Rajalakshmi, ASP/CSE  
Ms. J. Buvana, AP/CSE  
Ms. S. Janani, AP/CSE**

## **Convenor:**

**Dr.R.Anitha,  
Prof.& Head,Dept of CSE**



*Invitation*

# **GUEST LECTURE**

*on*

# **PROGRAMMING NUANCES IN DATA STRUCTURES**



Invocation song - S.Sadhana, II year CSE

Welcome address - R Mubashir Sheriff, II year CSE

Profile of the speaker - Dr. S.Rajalakshmi, ASP/CSE

Felicitation - Dr. R. Anitha, HOD/CSE

Address by the speaker - Mr. A.Balaji,

Upcoming System Engineer, TCS Prime

Q&A

Vote of thanks -R. Monisha, II year CSE



20 September 2024  
01:30 PM- 3:00 PM



BIOTECHNOLOGY  
CONFERENCE HALL



## Profile of the Speaker

### BALAJI A

(SVCE Alumnus: 2020-2024, CSE)  
Upcoming System Engineer, TCS  
Content Creator @Conquer Victory



### CONQUER VICTORY

@CONQUERVICTORY · 89.4K subscribers · 1.1K videos  
Educational Channel for Self Learning

Subscribed



An Engineering Graduate passionate about **programming and logical thinking**, **proficient in Java** and the Spring framework, with a **strong enthusiasm for teaching**.

### INTERNSHIPS

- **Multicoreware Inc (ARM Intrinsic):** Profiled UHDCode (Video Decoding library) using tools like perf and Oprofile. Used ARM Intrinsic to vectorize hotspot functions, improving fps by 15%.
- **SM Enterprises (Flutter):** Gained hands-on experience with Dart, built user interfaces using stateless and stateful widgets, and managed dependencies.
- **Let's Grow More (Java Developer):** Undertaken projects using Java Swing, working with Core Java, AWT, JDBC, and JFrame.

### PROJECTS

- **Course Registration System:** Developed with Java and MySQL, validating and storing user input in the database.
- **Heart Disease Prediction:** Built a DNN model for predicting heart disease with high accuracy.
- **Educational App:** Created an Android app using Java, SQLite, and Firebase.
- **Quiz Application:** Developed using Java Spring Boot, Spring Data JPA, and Postman, providing RESTful services.

## **RESPONSIBILITIES/VOLUNTEERING**

- Running a YouTube Channel - CONQUER VICTORY with 89.3K+ Subscribers, 1.1K videos, 55 shorts and 5 live youtube sessions

4 year old channel that successfully crossed 92,46,075 views.

### **Educational Channel for Self Learning**

- 1) TN Class 11 and 12 (Both English and Tamil Medium) - Teaching Videos from the Basics - Important questions - Exam Preparation & Presentation Tips - Free Educational Handwritten notes - Centum Tips - Career Guidance After 12th
  - 2) TNEA - Engineering Counselling (Career Guidance)
  - 3) Programming languages & Other Tutorials Python , C , C++ , Java , Mysql , Data Structures , Android App Development etc.
  - 4) Placement Preparation & Soft Skills - Aptitude and Basic Mathematics Concepts - English Communication and Grammatical Skills - Coding Questions - Tips to crack technical & hr interview
- Ullas Trust – HES - Ullas is set to recognize academic excellence in students from the economically challenged sections of our society and encourage the "Can do" spirit towards chasing their dreams and aspirations.
    - Teacher / Invigilator for exams



## Report with Photographs

### 1. Participants Details:

81 students from II Year CS B and C have participated in the *Guest Lecture on “Programming Nuances in Data Structures”* (as a part of the course CS22303 – Data Structures)

### 2. Report:



Mr. A. Balaji (SVCE Alumnus: 2020-2024, CSE) was the guest speaker, Ms. Lakshna Tarunya Y of II Year CS B was the master of ceremonies for the event and Mr. Kabenesh B V of II year CS B for photography.



The event started with a prayer song by Ms. Varsha G R of II Year AD B and Ms. Vikashini V of II Year CS C.





The welcome address was delivered by Mr. R. Mubashir Sheriff of II Year CS B. He welcomed the speaker, the event coordinators and the participants for the *Guest Lecture on “Programming Nuances in Data Structures”*.

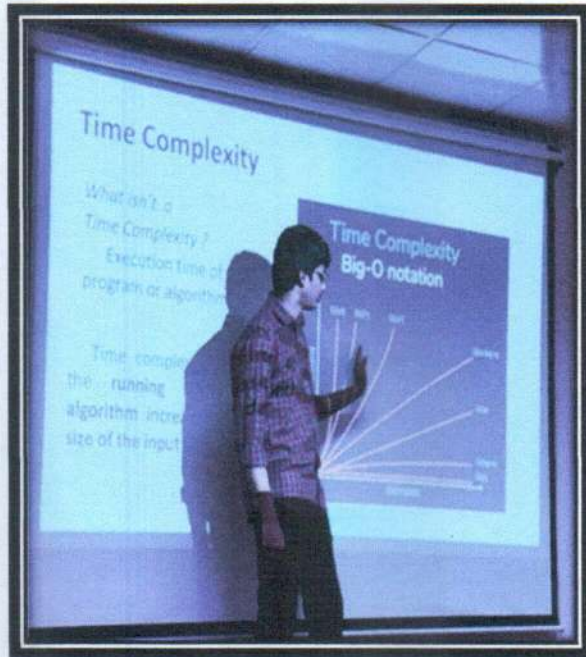
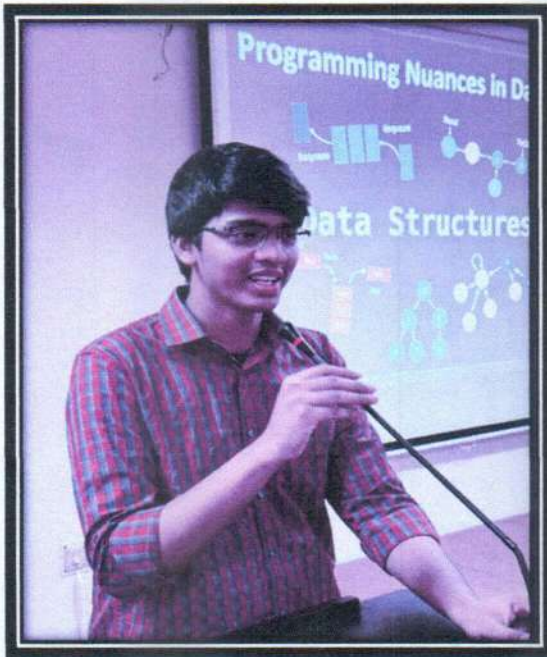


Dr. S. Rajalakshmi, Associate Professor / CSE introduced and outlined the profile of the speaker to the participants.





As a token of gratitude and appreciation, the speaker was felicitated by the event coordinators on behalf of the department.



The speaker started the session with explaining the meaning of the word “Nuances”. He explained that “data is everything” irrespective of any domain in computer science. He briefed on the definition and the types of data structures. He introduced the concept of time and space complexity which determines the efficiency of a data structure.

The concept of static and dynamic memory, linked list, stack, role of stack in recursion, queue and its need, binary search tree, AVL tree, hashing, graphs and its usage in programming was elaborated with illustrations.





The nuances in programming such as segmentation fault, dangling pointer, memory leaks, infinite loop, data corruption and NULL pointer were discussed in detail with simple code snippets.

The speaker ended the session by stating that:

- Data structures are helpful to optimize data storage, data retrieval and for writing efficient programs.
- Selecting the right data structure improves time and space complexity.



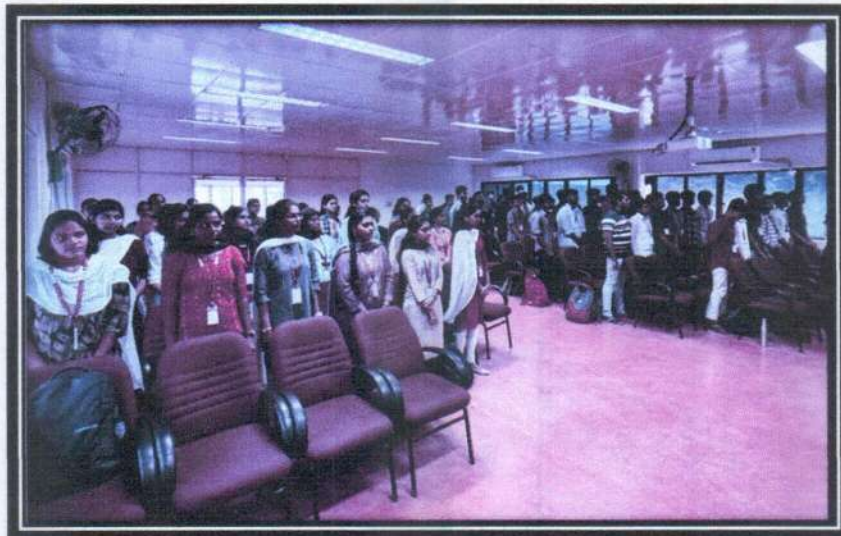
The address by the speaker is followed by Q & A session. The students interacted with the speaker by asking questions related to the guest lecture and also on the perspective of placement preparations.



As per the agenda, the participants successfully participated in the event. Later the feedback was collected from the participants and the speaker.



The session was concluded by giving vote of thanks by Ms. R. Monisha, II Year CS B.



The event was ended with National Anthem.

### **3. Outcomes:**

After participating in the guest lecture, the participants were able to:

- ✓ Understand the importance of learning data structures.
- ✓ Master the nuances in programming data structures.
- ✓ Identify the appropriate data structure for a given application.
- ✓ Know about the role of data structures in placement perspective.



**Sri Venkateswara College of Engineering**  
**(Autonomous - Affiliated to Anna University)**  
**Pennalur, Sriperumbudur - 602 117**

**Department of Computer Science and Engineering**

**Guest Lecture on Programming Nuances in Data Structures**  
**September 20, 2024**

**Attendance Sheet**

S.No	Roll No.	Batch (B / C)	Name of the Student	Signature
1	103	B	P. SRI AASHISH	Aashish
2	105	B	Pragadeesh .B	Pragadeesh
3	107	B	Pranao. N.S	Pranao.N.S
4	82	B	B. Manoj	B. Manoj
5	302	B	R. Dhruv	Dhruv
6	117	B	RAMANAN. G	Raman
7	166	C	T.R. THIRUNAVUKARASU	T.R. Thirunavukarasu
8	308	C	ROHIT ADITHYA S.V	Rohit
9	139	C	M. SHAGHANK	Shagank
10	142	C	SHIVSARAN.S	Shivsaran
11	134	C	S. Sathyan	Sathyan
12	153	C	SUMITH LANY RAJ	Sumit Lany
13	135	C	SHAAM SUNDER V	Shaam
14	161	C	P. Shanmugh Selvan.P	P. Shanmugh
15	158	C	Tanish M	Tanish M
16	126	C	SANJAI.M	Sanjai
17	130	C	SARATH CHANDRAN.M	Sarath
18	147	C	Sidharth S	Sidharth
19	138	C	R. SHARVESH	R. Sharvesh
20	171	C	L. VeluRahul	VeluRahul
21	154	C	D.SUNIL DARAN	D. Sunil Daran
22	132	C	R.M. SARVESH.	R.M. Sarvesh
23	177	C	Vineeth .I	Vineeth




S.No	Roll No.	Batch (B / C)	Name of the Student	Signature
24	159	C	R. Tarun Kumar	Tarun
25	184	C	S. Yuvaranjan	S. Yuvaranjan
26	133	C	Sasanth vs	Sasanth vs
27	179	C	Vishal K.R	Vishal
28	144	C	SHREE Kowsik.S.B	Shree Kowsik
29	182	C	Yatish Balaji. G	Yatish Balaji
30	127	C	Sanjeli. S	Sanjeli
31.	165	C	S. Thirumurugesan	Thirumurugesan
32.	172	C	A.J. Venkatarathen	Venkatarathen
33	64	B	S. Kaarthikeyan	Karthikeyan
34	305	B	MATHAN BALAJI .A	A. Mathan
35	304	B	madhubalan .L	L. Madhubalan
36	94	B	Najappan VPA	Najappan
37	140	C	Shashank N. S	Shashank
38	92	B	Mutiah Kasi	Mutiah
39	89	B	K. Monish	K. Monish
40	119	B	V. Ritvik suman	Ritvik
41	106	B	S. Prajan	Prajan
42	120	B	P. Rohith	P. Rohith
43	86	B	Meyyappan . Dm	Meyyappan
44	110	B	PRITHVI RASAN D	Prithvi
45	77	B	G. Madhav	G. Madhav
46	73	B	S. Kevin Christoph	S. Kevin
47	88	B	Monica . S	Monica
48	96	B	Neha Vishnu vijayan	Neha
49	99	B	Niithya	Niithya
50	101	B	Padmarashini . S	Padmarashini
51	136	C	B. Shanmathi Prasanna	B. Shanmathi
52	157	C	Sweetha . P	Sweetha
53	173	C	P.V. Vedhya Bharathi	Vedhya Bharathi
54	156	C	V. P. Sujana Manassvi	V. P. Sujana
55	175	C	V. Vikashini	V. Vikashini
56	170	C	Vaishanva Bhavishya	Vaishanva



S.No	Roll No.	Batch (B/C)	Name of the Student	Signature
57	168	C	VARSHITHA.M	M. Varshitha
58	187	C	S. SHARMILA	S. Sharmila
59	125	C	Salma Siddique	Salma Siddique
60	306	C	MHADHURRA CHANDRAN	Mhadhura
61	303	C	DIVYASRI.A	A. Divya
62	109	C	E. SARANYA	Saranya
63	163	C	T. Thermathi	T. Thermathi
64	100	B	Padmaja.S	Padmaja
65	095	B	Nandana.S	Nandana
66	116	B	RAJSUVETHA.V	Rajsuvetha
67	78	B	MADHUSHREE SN	Madhusree
68	102	B	PAVITHRA	P. Pavithra
69	81	B	MANISHA.N	N. Manisha
70	68	B	KANIMOZHI. FI	H. Kanimozhi
71	108	B	PRATHIKSHAA .B	Prathiksha
72	69	B	KANNISHKA .S	Kannishka
73	121	B	ROSHINI.S	Roshini
74	114	B	RAJALAKSHMI.S	Rajalakshmi
75	84	B	H. MEENATCHI	H. Meenatchi
76	65	B	KABARTINAA	Kabartina
77	66	B	KABENESH BV	B. V. Kabenesh
78	76	B	LAKSHNA TARUNYA	Lakshna
79	90	B	R. Monisha	R. Monisha
80	91	B	R. Mukashir Sheriff	R. Mukashir
81	167	C	J.S. Vaishnavany	Vaish.

Total No. of Participants : 81

  
20/9/2024.



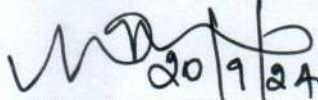


SRI VENKATESWARA COLLEGE OF ENGINEERING  
FEEDBACK FROM THE SPEAKER - GUEST LECTURE

DEPARTMENT : CSE

Name of the Speaker	: Balaji A.
Designation	: Upcoming System Engineer.
Institution/University/Organisation	: TCS
Mobile / E-mail	: 9176240300
Title of the Lecture	: Programming Nuances in Data Structure
Date	: 20th September 2024
Time	: 1:30 to 3:00 PM.
Venue	: Biotechnology Seminar hall
Comments by the Speaker	: Nice interactive session. Students were really engaged during the entire presentation.
Suggestions for improvement	: -
Signature of the Speaker	: Balaji

  
Signature of Coordinator

  
Signature of HOD













FT/GN/31A/00/10.06.15

SRI VENKATESWARA COLLEGE OF ENGINEERING

FEEDBACK - INPLANT TRAINING / SHORT TERM COURSE / GUEST LECTURE ✓

Name of the Student	B.PRATHIKSHAA
Branch/Semester/Section/Roll No.	CSE/ III-SEM/ B-SEC/ 108
Industry/ Institution Visited	—
Duration of Training/ Course with date	1.30-3.00 p.m / DATA STRUCTURE programming nuances in DS 2019/2024
Plants visited during training	—
Whether the training/Course was useful? In what way? Give reasons.	Yes, the lecture given by our college Alumini was more useful and the concepts were clearly understood
Any other suggestions	NIL  Prathikshaa.B Signature
Report and Copy of Certificate submitted.	  20/9/24 HOD  20/9/24 Faculty Incharge

The person who has attended the course should prepare this in triplicate and submit copies to:  
**A2, A3 and Dept.**





## SRI VENKATESWARA COLLEGE OF ENGINEERING

FEEDBACK - INPLANT TRAINING / SHORT TERM COURSE / GUEST LECTURE ✓

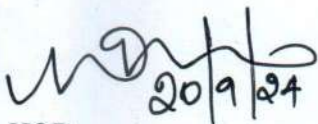
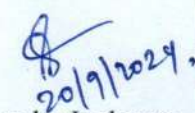
Name of the Student	VARSHITHA.M
Branch/Semester/Section/Roll No.	CSE / III / C / 168
Industry/ Institution Visited	-
Duration of Training/ Course with date	1.30 pm - 3.00 pm / Programming Nuances in Data Structures 20.9.24
Plants visited during training	-
Whether the training/Course was useful? In what way? Give reasons.	It was very useful. Learnt new concepts like Time complexity and very interesting.
Any other suggestions	We can get more time for this seminar. Due to time constraint, the guest has to rush on the concepts. M. V. V. V. V. Signature
Report and Copy of Certificate submitted.	<p>HOD 20/9/24</p> <p>20/9/2024 Faculty Incharge</p>

The person who has attended the course should prepare this in triplicate and submit copies to:  
**A2, A3 and Dept.**





SRI VENKATESWARA COLLEGE OF ENGINEERING  
FEEDBACK - INPLANT TRAINING / SHORT TERM COURSE / GUEST LECTURE ✓

Name of the Student	B. MANOJ
Branch/Semester/Section/Roll No.	CSE / III / B / 82
Industry/ Institution Visited	-
Duration of Training/ Course with date	1.30 - 3.00 pm / Programming Nuances in Data structures 20/9/24
Plants visited during training	-
Whether the training/Course was useful? In what way? Give reasons.	This session was very useful and interesting. This helped to learn about the basics and important foundations of Data structures.
Any other suggestions	The guest speaker was bit fast due to the time duration of session. If the duration had extended, even more in the event would become good. B. Manoj Signature
Report and Copy of Certificate submitted.	
 HOD	 Faculty Incharge

The person who has attended the course should prepare this in triplicate and submit copies to:  
A2, A3 and Dept.





## Letter of Appreciation

September 20, 2024.

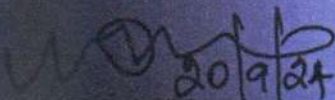
**Mr. A. Balaji,**  
(SVCE Alumnus: 2020-2024, CSE)  
Upcoming System Engineer, TCS  
Content Creator @Conquer Victory

Dear Alumnus,

On behalf of the Department of Computer Science and Engineering, we sincerely appreciate your time for visiting our institute to share your knowledge on the title "**Programming Nuances in Data Structures**". The session was most useful for the students on how to deal with the intricacies while writing programs in data structures. The contents of the guest lecture are most informative and the presentation that you delivered has made the students extremely curious to learn the ideas and practice coding independently.

Thank you for enriching our learning experience and with your modesty, we are humbled. Looking forward to having you again in near future.

Thanking You.

  
20/9/24  
HOD / CSE

HEAD OF THE DEPARTMENT  
COMPUTER SCIENCE AND ENGINEERING  
SRI VENKATESWARA COLLEGE OF ENGINEERING  
PENNALUR, SRI PERUMBUDUR TALKU - 602 117  
TAMIL NADU, INDIA




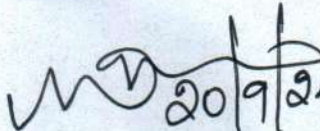
## Expenditure Details

The expenditure details for the event are tabulated as follows:

S.No.	Category	Amount
1	Honorarium for Speaker	Rs. 500/-
2	Refreshments for Speaker	Rs. 55/-
	<b>Total</b>	<b>Rs. 555/-</b>

The receipt for the same is attached herewith.

  
20/9/24.

  
20/9/24







