

**DAYANANDA SAGAR COLLEGE OF ARTS SCIENCE AND COMMERCE**  
 Shavige Malleshwara Hills, Kumaraswamy Layout, Bangalore-560082  
 Internal Quality Assurance Cell (IQAC) Cell

**Guest Lecture on Backtracking Technique**

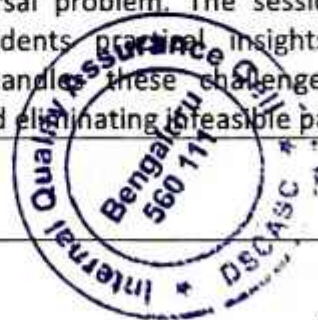
Department: MCA

Date: 12<sup>th</sup> Sep 2024

Sl. No.	Particulars	Event related Details			
1.	Event*	Guest Lecture			
2.	Title of the Event	Backtracking Technique			
3.	Date	12 <sup>th</sup> Sep 2024			
4.	Time	2 PM to 3 PM			
5.	Venue	Seminar Hall, Building No. 17, DSI Campus			
6.	Resource Person 1 Details (Profile to be enclosed)	Name: Dr. Manimekala Designation: Assistant Professor Organisation: Christ University Area of Expertise: Natural Language Processing, Design and Analysis of Algorithms			
7.	Topics Covered	Backtracking Technique – Algorithm, Applications			
8.	Resource Person 2 Details (Profile to be enclosed)	Nil			
9.	Topics Covered	NA			
10.	No. Faculty Participants	Internal:	01	External:	NIL
11.	No. Student Participants	Internal:	112	External:	NIL
12.	Faculty Coordinator/s	Name : Dr. Kumudavalli Designation : Professor & Deputy Director Department: Department of Computer Applications, DSCASC Full Name: Prof. T. KohilaKanagalakshmi Designation: Assistant Professor Department: Department of Computer Applications, DSCASC			



13.	Student Coordinator/s	Full Name: Ankith M R Register No: P03C7235126025 Course, Semester & Section: MCA,1 <sup>st</sup> SEM 'A' Sec
14.	Total Expenditure (Details to be enclosed)	3000
15.	Sponsors and Amount (if any)	NA
16.	Agenda of the Event (Attach a copy)	Attached
17.	Provide the link of the report uploaded on College Website	
18.	Provide the links of the report uploaded on Social Media	
19.	Report sent to Newspapers? If yes, provide cuttings/images:	NA
20.	Certificates Printed? (Attach a copy**)	NA
21.	Feedback Collected? (Attach a copy**)	Yes
22.	Attendance Sheet Attached? #	Yes
23.	Summary of the Event (Around 100 words)	On 12th September 2024, the Department of Computer Applications (MCA) at DSCASC organized a guest lecture on the Backtracking Technique, focusing on its application in solving complex computational problems. The expert speaker delved into key examples, including the N-Queen Problem, where backtracking is used to place queens on a chessboard without conflicts, the Sum of Subsets Problem, which identifies subsets that add up to a target value, and the Hamiltonian Circuit, a graph traversal problem. The session was highly interactive, offering students practical insights into how backtracking efficiently handles these challenges by exploring potential solutions and eliminating infeasible paths.
24.	Photographs of the Event	Attached



*[Signature]*  
Event Coordinator

*[Signature]*  
Deputy Director  
Dr. Kumudavalli M V M.Sc., M.Phil., Ph.D.  
Professor & Deputy Director  
Department of Computer Applications  
Dayananda Sagar College of Arts, Science & Commerce  
Shavige Malleshwara Hills, Kumaraswamy Layout  
Bengaluru - 560 111

*[Signature]*  
12/9/24  
IQAC Coordinator

Mr. Hemant H Upasla, M.Sc.  
Vice-Principal  
Dayananda Sagar College of Arts, Science & Commerce  
Mullereshwara Hills, Kumaraswamy Layout, Bengaluru - 560 111

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Vice Principal

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Principal

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Kumaraswamy Layout, Bengaluru - 560 111



**DAYANANDA SAGAR COLLEGE OF ARTS,  
SCIENCE & COMMERCE**

**INTERNAL QUALITY ASSURANCE CELL (IQAC)**

**DEPARTMENT OF COMPUTER APPLICATIONS - MCA**

# **Guest Lecture On Backtracking Technique**



***Dr. B. Manimekala  
Assistant Professor  
Department Of Computer Science  
Christ University  
Bengaluru***

**Date: 12 Sep 2024**

**Time: 2 PM to 3 PM**

**Venue: Building No 17, DSCASC**

**SHAVIGE MALLESHWARA HILLS, KUMARSWAMY LAYOUT,  
BENGALURU**

**[www.dscasc.edu.in](http://www.dscasc.edu.in)**

**DAYANANDA SAGAR COLLEGE OF ARTS SCIENCE AND COMMERCE**

**Shavige Malleshwara Hills, Kumaraswamy Layout, Bangalore-560082**

**Internal Quality Assurance Cell (IQAC) Cell**

**Guest Lecture on Backtracking Technique**

**Department: MCA**

**Date: 12<sup>th</sup> Sep 2024**

### **Program Schedule**

- |                                |                |
|--------------------------------|----------------|
| <b>1. Welcome Speech</b>       | <b>2.00 PM</b> |
| <b>2. Speaker Introduction</b> | <b>2.05 AM</b> |
| <b>3. Technical Talk</b>       | <b>2.10 AM</b> |
| <b>4. Q&amp;A Session</b>      | <b>2.50 AM</b> |
| <b>5. Vote of Thanks</b>       | <b>2.55 AM</b> |

**DAYANANDA SAGAR COLLEGE OF ARTS SCIENCE AND COMMERCE**  
Shavige Malleshwara Hills, Kumaraswamy Layout, Bangalore-560082  
**Internal Quality Assurance Cell (IQAC) Cell**

**Guest Lecture on Backtracking Technique**

**Department: MCA**

**Date: 12<sup>th</sup> Sep 2024**



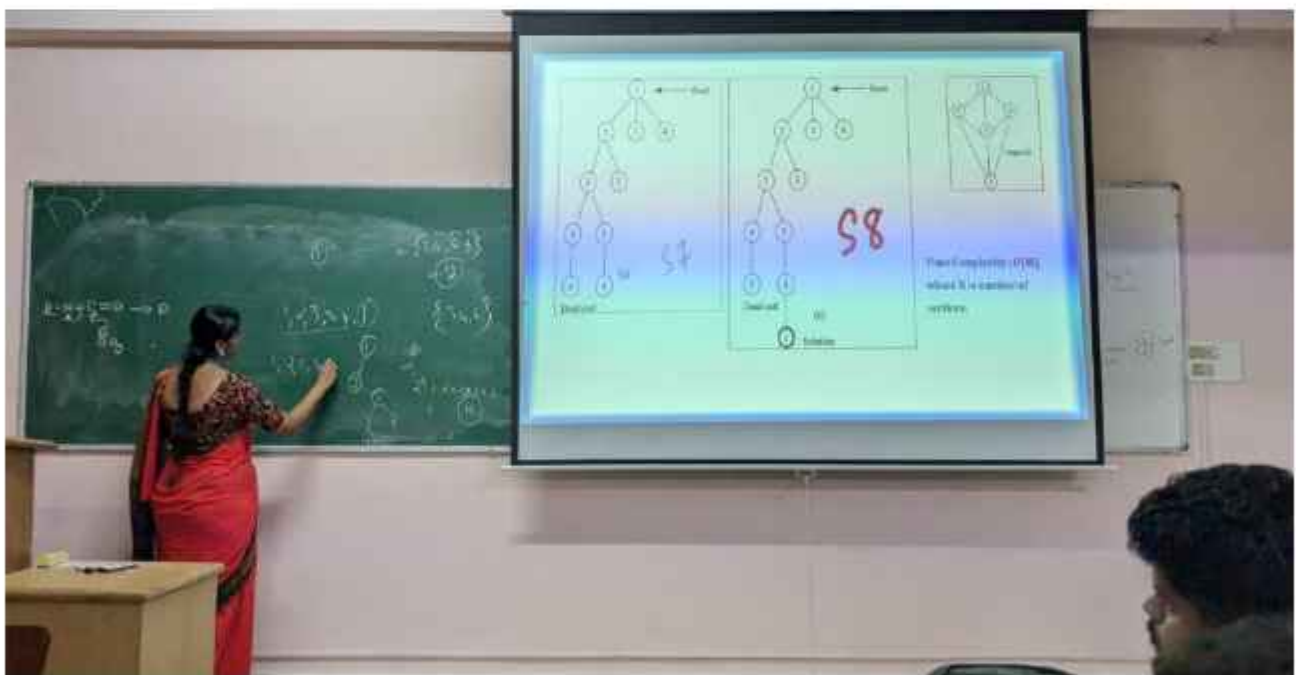
**Photo 1: Speaker was explaining the concept of Backtracking**



**2. Explanation of n- Queen Problem**



### 3. Explanation of Sum of subset Problem



### 4. Hamiltonian circuit explanation



## 5. Participants

DAYANANDA SAGAR COLLEGE OF ARTS, SCIENCE AND COMMERCE  
 Department of Computer Applications -MCA  
 Guest Lecture on "Backtracking Technique"

Date: 12.09.2024

Course :MCA II Semester

SL. NO.	REG.NO.	STUDENTS NAME	SIGNATURE
01	P03CJ23S126116	Neha.M	
02	P03CJ23S126069	Pooja M	
03	P03CJ23S126063	neethu ARS	
04	P03CJ23S126109	Vaishnavi. S	
05	P03CJ23S126098	Simplu H.K	
06	P03CJ23S126101	Pukanya J	
07	P03CJ23S126092	SARASWATHI. D	
08	P03CJ23S126104	SWATI. S. BAADKAR	
09	P03CJ23S126066	PALLAVI. A.	
10	P03CJ23S126073	Rahma	
11	P03CJ23S126093	Shalini. S.K	
12	P03CJ23S126075	Rajalakeshmi. R	
13	P03CJ23S126042	Harshitha. V	
14	P03CJ23S126021	Deepika. B	
15	P03CJ23S126080	Rakshitha. B. T.	
16	P03CJ23S126075	Rajalakeshmi R	
17	P03CJ23S126057	Shilpa. K. S	
18	P03CJ23S126013	Bharati Bhat	
19	P03CJ23S126072	R.M. Anusha	
20	P03CJ23S126109	Vaishnavi Srinu	
21	P03CJ23S126004	Ashwarya AP	
22	P03CJ23S126007	Annulya. M	
23	P03CJ23S126015	Bhoomika .D	
24	P03CJ23S126031	Esha G.B	
25	P03CJ23S126041	Harshitha. S	
26	P03CJ23S126008	Anitha. K.N	
27	P03CJ23S126047	Krshare. M	
28	P03CJ23S126050	Madhu. N.	
29	P03CJ23S126002	Abhilash. K.	
30	P03CJ23S126012	Anusha. V.	





SL. NO.	REG.NO.	STUDENTS NAME	SIGNATURE
1.	P03CJ23S126081	Rakshitha.C.U	<u>Rakshitha</u>
2.	P03CJ23S126102	Supriya.K	<u>K. Supriya</u>
3.	P03CJ23S126099	Skanda Bharadwaj. H.R	<u>Skanda</u>
4.	P03CJ23S126084	Rohit P. Desai	<u>Rohit P. Desai</u>
5.	P03CJ23S126018	Chandana T.U	<u>Chandana</u>
6.	P03CJ23S126045	Keerthana.K	<u>Keerthana.K</u>
7.	P03CJ23S126088	Rakshitha.C.U	<u>Rakshitha.C.U</u>
8.	P03CJ23S126019	Deepa	<u>Deepa</u>
9.	P03CJ23S126035	Gagana	<u>Gagana</u>
10.	P03CJ23S126060	Navaneeth.N	<u>Navaneeth</u>
11.	P03CJ23S126035	Gagana.M	<u>Gagana.M</u>
12.	P03CJ23S126027	ASHOK C.M	<u>Ashok</u>
13.	P03CJ23S126023	Dhanush.SE	<u>Dhanush</u>
14.	P03CJ23S126051	Madhusudhan. J	<u>MS.SL</u>
15.	P03CJ23S126034	Gagana H.N	<u>Gagana</u>
16.	P03CJ23S126043	Jashwanth.MK	<u>Jash</u>
17.	P03CJ23S126028	Dhruvaj.L.K	<u>Dhruvaj</u>
18.	P03CJ23S126052	Mahesh.D	<u>Mahesh</u>
19.	P03CJ23S126025	Ankith.M.R	<u>Ankith.M.R</u>
20.	P03CJ23S126048	Kushal B.L	<u>Kushal</u>
21.	P03CJ23S126010	Ankitha.C.R	<u>Ankitha.C.R</u>
22.	P03CJ23S126046	Keerthi.V.Nyamagondar	<u>Keerthi</u>
23.	P03CJ23S126055	Manoj L.Kulkarni	<u>Manoj</u>
24.	P03CJ23S126029	Dhruva N.K	<u>Dhruva N.K</u>
25.	P03CJ23S126037	Gowesh prasad.N.S	<u>Gowesh</u>
26.	P03CJ23S126070	Pooja Madhukar Hegde	<u>Pooja Hegde</u>
27.	P03CJ23S126039	Gurunath. M. Kitagari	<u>Gurunath</u>
28.	P03CJ23S126049	Lohith. M.S	<u>Lohith.M.S</u>
29.	P03CJ23S126005	Akash. B	<u>Akash</u>
30.	P03CJ23S126110	Vamsi Krishna	<u>Vamsi Krishna</u>



Sl. NO.	REG.NO.	STUDENTS NAME	SIGNATURE
60	P03CT23S126089	Sanjay J. G	
61	P03CT23S126088	Pondreya E	
62	P03CT23S126100	Suhay	
63	P03CT23S126093	Rohan H K	
64	P03CT23S126077	Rakesh Mutnal	
65	P03CT23S126078	Rakesh T	
66	P03CT23S126112	Vijay Kumar	
67	P03CT23S126022	Devaraj U. V	
68	P03CT23S126011	Basavaraj. P. P	
69	P03CT23S126036	Ganesh Naik	
70	P03CT23S126053	Manoj. C	
71	P03CT23S126032	Aadarsh	
72	P03CT23S126114	Yashas	
73	P03CT23S126097	Shaikent. Y. H	
74	P03CT23S126077	Pranjal HN	
75	P03CT23S126087	Sagar	
76	P03CT23S126065	Praveenappa. G	
77	P03CT23S126062	Shagaraj. K	
78	P03CT23S126017	Vinay S. V	
79	P03CT23S126064	Nikitha. M. G	
80	P03CT23S126082	Sadhana	
81	P03CT23S126113	Yamuna. C. B	
82	P03CT23S126100	Syed Suhail Pasha	
83	P03CT23S126085	Rudra Bh Khatri	
84	P03CT23S126111	Vishnu Kumar J.B.	
85	P03CT23S126044	Kalanjali Nikal	
86	<del>P03CT23S126087</del>		
87	P03CT23S126091	Santu Porrey	
88	P03CT23S126096	Shelam Raj	
89	P03CT23S126076	Rajarshi Datta	
90	P03CT23S126074	Rohini Kumar	
91	P03CT23S126118	Sushit Gupta	
92	P03CT23S126094	Shamleha Pal	
93	P03CT23S126090	Sanjay Kumar B. G	
94	P03CT23S126103	Shandha K	





Title : BACKTRACKING TECHNIQUE

Name : Supriyaa . K

Reg No : P03CJ235126102

CLASS : MCA - II Sem 'B'

Date : 12/09/2024

Subject : Feedback on Workshop

The Backtracking techniques workshop was a well-organized and insightful session. The explanation of fundamental concepts such as recursion, N-Queen's problem, Sum of subsets were very clear, making it easy to understand how backtracking operates in solving complex problems.

The use of real-life examples and step-by-step problem solving was particularly helpful in illustrating the practical applications of backtracking.

In Summary, the workshop was engaging, educational and provided a solid foundation in backtracking techniques.



Student Signature

K. Supriyaa

Title : BACKTRACKING TECHNIQUE

Name : Vaishnavi. Simnu

Reg. NO : PD3CJ235126109

Date : 12/09/2024

Subject : Feedback

The Guest lecture on Backtracking Techniques in DAA was very informative and well-structured.

The examples, such as N-Queens and Sudoku Solving, were effectively used to illustrate the concepts.

The Speaker's clear explanation made the complex topic more understandable.

Overall, the lecture was engaging and beneficial for enhancing our understanding of backtracking.



Student Signature

A handwritten signature in black ink, appearing to be "Vaishnavi".