



Dayananda Sagar College of Arts, Science, and Commerce

Internal Quality Assurance Cell

Department of Computer Applications - MCA

Guest Lecture on "Kernel-Level Perspective: Understanding Windows and Linux"

Department: MCA

Date of Report: 13/08/2025

Sl. No.	Particulars	Event related Details		
1.	Event	Guest Lecture		
2.	Title of the Event	Kernel-Level Perspective: Understanding Windows and Linux		
3.	Date of Conduction	12/08/2025	4.	Time: 2 AM to 4 PM
5.	Venue	Building No. 17, Seminar Hall		
6.	Resource Person 1 Details	Mr. Srinivas Bhat, Knowledge Management Specialist Hewlett Packard Enterprise, Bangalore		
7.	Topics Covered	Operating System Architecture, Kernel Architecture, System Calls & APIs Virtualization		
8.	Resource Person 2 Details	NA		
9.	Topics Covered	NA		
10.	No. Faculty Participants	Internal:	02	External:
11.	No. Student Participants	Internal:	78	External:
12.	Faculty Coordinator/s	Prof. Srivatsala Prof. Kohila Kanagalakshmi T Dept. of Computer Applications, DSCASC		
13.	Student Coordinator/s	Ms. Tanmaye R (RegNo. P03CJ24S126108) Ms. Sneha N S (RegNo. P03CJ24S126104)		
14.	Total Expenditure	Rs. 3000/-	15	Sponsors and Amount
16.	Agenda of the Event	Attached	17.	Provide the link of the report uploaded on College Website
18.	Social Media Links		19.	Report sent to Newspapers? If yes, provide cuttings/images:
20.	Certificates Printed?		21.	Feedback Collected?
22.	Attendance Sheet Attached?	Attached	23.	Photographs of the Event
24.	Summary of the Event	The Department of MCA, DSCASC organized a Guest Lecture titled "Kernel-Level Perspective: Understanding Windows and Linux". This seminar offers an in-depth look at Windows and Linux internals, focusing on kernel-level architecture, boot processes, process and memory management, system calls, file systems, device drivers, and security mechanisms. It highlights differences and design philosophies, providing insights into how modern operating systems function behind the scenes as well as virtualization. The session was concluded with Q&A session.		



S. Srivatsala
Event Coordinator

K. Srinivas
Deputy Director

S. Srinivas
13/08/25
IQAC Coordinator

T. Sankar
Principal

IQAC Co-ordinator
Dayananda Sagar College of Arts, Science & Commerce
Kumaraswamy Layout, Bengaluru - 560 111

Principal
Dayananda Sagar College of Arts, Science & Commerce
Kumaraswamy Layout, Bengaluru - 560 111



Dayananda Sagar College of Arts, Science, and Commerce

Internal Quality Assurance Cell

Guest Lecture on “Kernel-Level Perspective: Understanding Windows and Linux”

Department:MCA

Date : 12/08/2025

Program Schedule

- | | | |
|----|-------------------------------------|---------|
| 1. | Welcome Speech | 2:00 PM |
| 2. | Speaker Introduction | 2.05 PM |
| 3. | Lecture on Kernel-Level Perspective | 2.10 PM |
| 4. | Career Path | 3.30 PM |
| 5. | Q&A Session | 3.45 PM |
| 6. | Vote of thanks | 3:55 PM |



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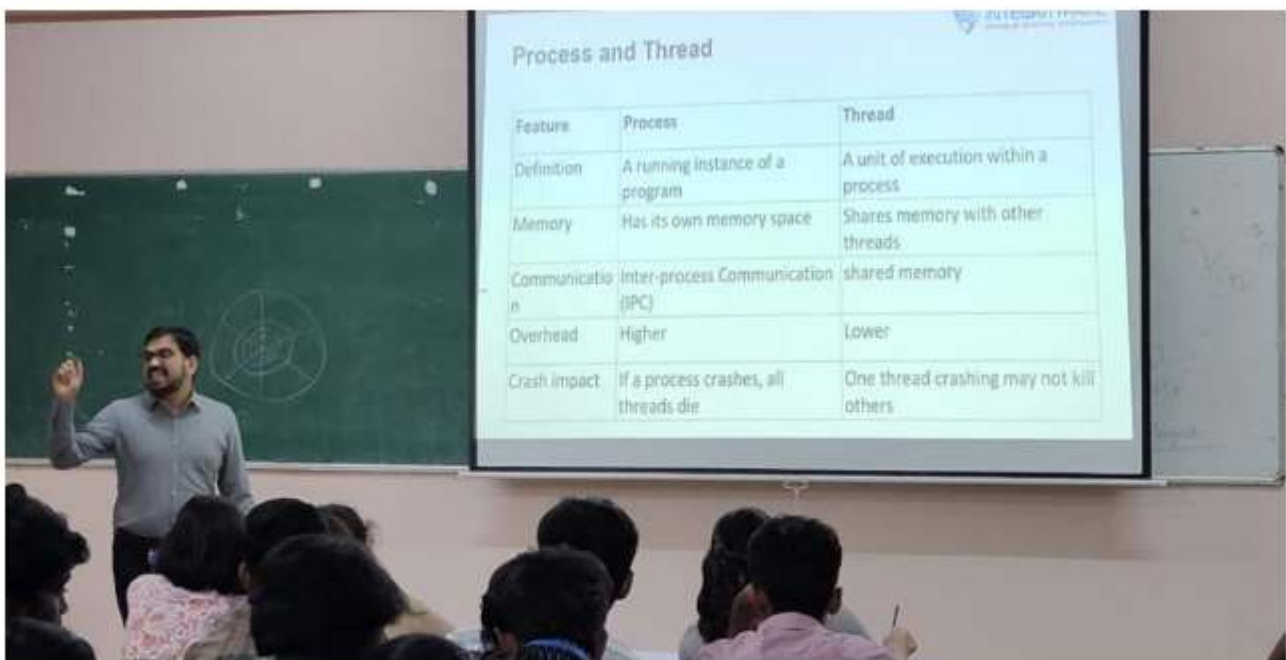


1. Welcome the speaker



2.

2. Speaker explaining the functions of operating system



3. Difference between Process and Thread



4. Virtualization



DAYANANDA SAGAR COLLEGE OF ARTS, SCIENCE AND COMMERCE

Kumara Swamy Layout, Bangalore - 560 111
(Affiliated to Bangalore University, Approved by AICTE, NAAC Accredited)

Name of the Activity:

Department: Department of Computer Applications -

Date: 12/8/2025

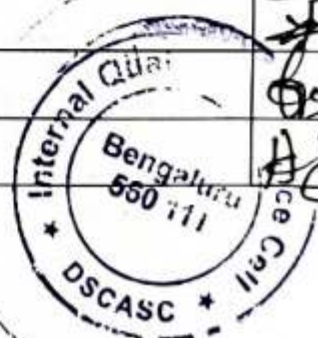
Course: MCA

Time: 2:00 - 4:00

SL.No.	Reg.No.	Student Name	Signature
1	P03CJ24S126093	Bushma S	
2	P03CJ24S126091	Spandhana Lokesh	
3	P03CJ24S126014	Ashwini T	
4	P03CJ24S126008	Ananya N	
5	P03CJ24S126085	Santhosh M	
6	P03CJ24S126103	Sunil M	
7	P03CJ24S126055	Likith R	
8	P03CJ24S126096	Champrith B V	
9	P03CJ24S126097	SRIVATSA A	
10	P03CJ24S126009	Abhishwaran R	
11	P03CJ24S126029	Devadatta HS	
12	P03CJ24S126052	Kushal Kumar M	
13	P03CJ24S126061	M.V. Puneeth	
14	P03CJ24S126067	Nithesh Gowda	
15	P03CJ24S126005	Adithya P	
16	P03CJ24S126010	Ashvitha V	
17	P03CJ24S126117	Vishwas R K	
18	P03CJ24S126110	Ullas L V	
19	P03CJ24S126080	Ravi Shankar A	
20	P03CJ24S126087	Santosh K C	



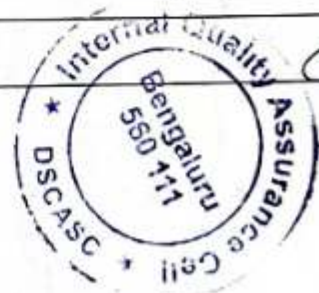
SL.No.	Reg.No.	Student Name	Signature
21	P03CJ24S126077	Purshalatha T	Pursh
22	P03CJ24S126115	Veena . BB	veena
23	P03CJ24S126108	TANMAY D. R	Tanmay
24	P03CJ24S126089	Shree Gouri	Shree
25	P03CJ24S126081	Rushikesh	Rushikesh
26	P03CJ24S126062	Neha . V	Neha V
27	P03CJ24S126068	Noor Fathima	Noor Fathima
28	P03CJ24S126084	Sahana SB	Sahana
29	P03CJ24S126082	Laxminarayana	Laxminarayana
30	P03CJ24S126094	Sushmitha . S	Sushmitha
31	P03CJ24S126074	Prityanka . S	Prityanka
32	P03CJ24S126003	Amulya . H	Amulya
33	P03CJ24S126018	Yashaswini . N	Yashaswini
34	P03CJ24S126107	T. A. Kishan	Kishan
35	P03CJ24S126099	Sudeep Porabai	Sudeep
36	P03CJ24S126114	Varun . S.	Varun
37	P03CJ24S126026	Chandana R	Chandana
38	P03CJ24S126090	SHASHANK B. S	Shashank
39	P03CJ24S126100	Sudeep Khawri	Sudeep
40	P03CJ24S126058	Sadiq Maniyar	Sadiq
41	P03CJ24S126057	Manish . M	Manish
42	P03CJ24S126032	Emmanuel	Emmanuel
43	P03CJ24S126098	Shivaraddi	Shivaraddi
44	P03CJ24S126119	Yadavacharya	Yadavacharya
45	P03CJ24S126036	GIRISH . R	Girish
46	P03CJ24S126004	Abhinandan . G	Abhinandan



SL.No.	Reg.No.	Student Name	Signature
47	P03CT24S126070	p. punith kumar	P
48	P03CT24S126072	prajwal Nayaka NS	Prajwal
49	P03CT24S126092	sudheep.s	Su
50	P03CT24S126071	prajwal Acharya	Pra
51	P03CT24S126075	pranav bhat	Pra
52	P03CT24S126069	naveen kumar.m	Naveen
53	P03CT24S126030	Darshan.m.	Darshan
54	P03CT24S126088	SHARATH.S	Sharath
55	P03CT24S126013	ARCHAN KUMAR .H	Archan
56	P03CT24S126039	Deeksha.S	Deeksha
57	P03CT24S126029	Chandana.S	Chandana
58	P03CT24S126040	Hemalatha	Hema
59	P03CT24S126050	keethana	Keethana
60	P03CT24S126041	Hansika.B	Hansika
61	P03CT24S12630	Darshan.M	Darshan
62	P03CT24S126035	Ghusadiya muvrik H	Ghusadiya
63	P03CT24S126017	Bhudani ohuzum B	Bhudani
64	P03CT24S126056	M. Saranya	Saranya
65	P03CT24S126024	Chandana. N	Chandana
66	P03CT24S126046	Keshavmurthy.	Keshavmurthy
67	P03CT24S126022	Aaranya. R	Aaranya
68	P03CT24S126019	Shorathi. G.K	Shorathi
69	P03CT24S126042	Himanshu Raj	Himanshu
70	P03CT24S126073	Perathusha	Perathusha

Event Coordinator Name: T.kohila Srivatsala.

Signature: [Signature]



71. P03CJ24S126104	Sneha.N.S	<u>Sneha</u>
72. P03CJ24S126120	Yashaswini.E	<u>E. Yashaswini</u>
73. P03CJ24S126111	Usha.S.P	<u>Usha</u>
74. P03CJ24S126112	Usha.B.A	<u>Usha.B.A</u>
75. P03CJ24S126079	Ravika Mala.k	<u>Ravika Mala</u>
76. P03CJ24S126116	Uyehnavi.P.G	<u>Uyehnavi.P.G.</u>
77. P03CJ24S126102	Suman Ghosh	<u>Suman</u>
78. P03CJ24S126078	Ranjan Kumar V	<u>Ranjan</u>



Feed Back

The guest lecture on kernel level perspective of an operating system architecture was highly insightful and well-structured. The speaker clearly explained fundamental concepts like kernel architecture, system calls, and APIs, along with advanced topics such as virtualization. Real-world examples and practical comparisons between Windows and Linux made the session engaging and easy to understand. The interactive discussions encouraged active participation, enhancing conceptual clarity. Overall, the lecture provided valuable knowledge and a strong foundation for understanding how operating systems work at the core level.

Keerthana
(P03CJ24S126050)

The session on operating system kernel-level perspective was extremely informative and well-presented. The explanation of kernel design, system calls, and virtualization concepts was clear and concise. The comparison between Windows and Linux internals gave a deeper understanding of real-world implementations. The Q&A session was very interactive, helping clarify doubts effectively. Overall, it was a highly engaging lecture that strengthened our technical knowledge and provided practical insights into OS internals.



Saranya
(P03CJ24S126056)