



## **COMPUTER ENGINEERING DEPARTMENT**

**A. V. PAREKH TECHNICAL INSTITUTE, RAJKOT**

Approved by AICTE & Affiliated to Gujarat Technological University

Department Of Technical Education (Government of Gujarat)

Opp. HemuGadhvi Hall, DrYagnik Road, RAJKOT

Ph.: 0281-2480175 Website: www.avpt.cteguj.in Email: avpti-rajkot-dte@gujarat.gov.in



AVPT/COMP/SEMINAR/2025/023

January 31, 2025

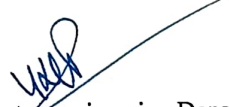
### **Circular**

A Seminar on '*Revisiting the Core: Advanced Concepts in Computer Number Systems*' is organized on 01/02/2025 in Seminar Hall at 11:15 am by Ms. Shivangi Malli, Lecturer, Computer Engineering Department, AVPTI- Rajkot. Therefore, it is to inform all 2<sup>nd</sup> semester students of computer engineering department to remain present during the seminar on above mentioned topic.

First year students are instructed to be present without fail for this seminar.

Date and Time: 01/02/2025 at 11:15 am

Venue : Seminar Hall

  
HOD, Computer engineering Department,  
AVPTI, Rajkot

Copy Dispatched :

- 1) For the Computer engineering department office order file.
- 2) To the Computer engineering relevant staff for necessary action
- 4) For the Computer engineering department Notice Board.

--- • ---NBA Accredited Courses --- • ---

- -- Computer Engineering -- • -- Electrical Engineering -- •
- -- Bio-Medical Engineering -- • -- Computer Aided Costume Design & Dress Making -- •





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Date: 01-02-2025

## EVENT REPORT

DATE & TIME:	01-02-2025 at 11:15am
EVENT TYPE:	Seminar – Curricular Activity
EVENT TITLE:	<i>Revisiting the Core: Advanced Concepts in Computer Number Systems</i>
EVENT VENUE:	Seminar Hall, Computer Engineering Department
EVENT CO-ORDINATOR:	S. B. MALLI (Lecturer CE)

NO. OF PARTICIPANTS :

2<sup>nd</sup> Semester 124 Students

### EVENT OUTCOMES

- **Understanding of Advanced Number Systems:** Participants would gain an in-depth understanding of number systems beyond the basic binary, decimal, and hexadecimal systems. This may include topics like floating-point representation, octal, and other specialized systems used in computing.
  - **Applications of Number Systems in Computing:** The session could explore how these number systems are applied in areas like memory addressing, data storage, and digital signal processing, enhancing practical knowledge of their real-world significance.
  - **Conversion Techniques:** Learners would refine their skills in converting between various number systems (binary, hexadecimal, decimal, etc.) with a focus on more complex or real-world examples.
  - **Representation of Real Numbers:** Detailed exploration of how computers represent real numbers, covering topics like floating-point arithmetic, mantissa, exponent, and normalization, along with the limitations and implications of this representation in terms of precision and rounding errors.
  - **Binary Arithmetic:** Delving into the intricacies of binary arithmetic operations (addition, subtraction, multiplication, and division) in the context of digital circuits and algorithm design.
  - **Critical Thinking and Conceptualization:** Encouraging learners to think critically about how number systems influence both hardware (like processors) and software (such as compilers and interpreters), including an exploration of how these systems have evolved over time.
- In essence, the session would aim to provide participants with a stronger conceptual foundation in advanced number systems, as well as practical skills for applying this knowledge to real-world computing tasks.



## EVENT HIGHLIGHTS



  
SIGNATURE  
HEAD OF THE DEPARTMENT



# A.V.PAREKH TECHNICAL INSTITUTE-RAJKOT

## Computer Engineering Department

Date: 1/2/25

### STUDENT ATTENDANCE

Semester: 2<sup>nd</sup>

Sr. No.	Enrolment No.	Signature
1	246020307224	M.R.V.
2	246020307201	Tushar
3	246020307193	Rashid
4	246020307275	HB
5	246020307373	Dharmik R.
6	246020307188	SPB
7	246020307234	J.P. Vyas
8	246020307183	SJA
9	246020307161	S.
10	246020307087	Abhi.
11	246020307103	K.J.H.
12	246020307101	KKP
13	246020307163	Shubham
14	246020307029	P.
15	246020307035	Vinit
16	246020307123	R.M.
17	246020307151	Dixit.
18	246020307131	Rishi
19	246020307048	Dyesh
20	246020307061	Shel...
21	246020307074	Dekam
22	246020307121	Nirab
23	246020307069	S.K. Gohel
24	246020307050	D.A.B.
25	246020307128	Yash
26	246020307213	H.
27	246020307092	P. J.
28	246020307116	Arun
29	246020307085	(Signature)
30	246020307038	Chot...

246020307081  
246020307082  
246020307037  
246020307190

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Sr. No.	Enrolment No.	Signature
31	246020307072	G.D.M.
32	246020307274	Sh
33	246020307100	K.
34	246020307090	(Signature)
35	246020307219	(Signature)
36	246020307229	(Signature)
37	246020307171	A.R.R.
38	246020307189	B.B. Surve
39	246020307214	Jinbadha
40	246020307118	P.A. mekumet
41	246020307247	S.A.P.
42	246020307085	(Signature)
43	246020307015	Abhis
44	246020307023	Aarys
45	246020307226	Het
46	246020307220	(Signature)
47	246020307297	Jay
48	246020307216	meet...
49	246020307187	BS
50	246020307007	Yash
51	246020307243	Bharat
52	246020307127	(Signature)
53	246020307109	JV
54	246020307080	(Signature)
55	246020307215	Jay
56	246020307206	Dev m. Tank
57	246020307159	Kavish
58	246020307043	D.A.N.
59	246020307006	(Signature)
60	246020307027	Mohit.

246020307057  
246020307160  
246020307132  
24602030725

61	246020307208	<del>Pravara</del>
62	246020307209	<del>Pravara</del>
63	246020307207	<del>Pravara</del>
64	246020307097	<del>Pravara</del>
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