



Internal Quality Assurance Cell

Academic Year 2025-26

To,

The Principal
BGSCET

Date: 04/11/2025

Place: Bangalore

Subject: Permission to Conduct *BGS Invited Technical Talk on The evolving landscape of Processor Architecture*

Respected Sir,

The Department of Computer Science and Engineering is planning to organize a *BGS Invited Technical Talk* on the topic "*The evolving landscape of Processor Architecture*".

This programme is scheduled for the **5th semester students on 4th of November 2025 at 11.AM in the Auditorium**. The session will be delivered by eminent expert **Prof .R Govindarajan** ,Dept of Computer Science and Automation & Research Center, Indian Institute of Science(IISC).

The sessions will provide students the insights and a comprehensive understanding of how processor architectures have advanced from single-core to multi-core and AI-based systems.

We kindly seek your permission to conduct this programme in Auditorium.

Thank you for your consideration.

Your Sincerely

Dr. Manjula G

Prof and Head, Dept CSE
BGSCET

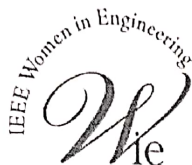
IQAC Chief Coordinator

IQAC Chief Co-ordinator
BGS College of Engineering & Technology
Mahalakshimpuram, Bengaluru-560086

Principal



॥ ज्ञेयो इत्येनं प्रमाणमवदेष्टु ॥
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Mahalakshmiapuram, West of Chord Road, Bengaluru-560086



Technical Talk

on

"The Evolving Landscape of Processor Architecture"

by

Prof. R Govindarajan

Dept. of Computer Science and Automation &
Supercomputer Education and Research Center
Indian Institute of Science (IISc)



Organized by
Department of CSE

4th November, 2025

11:00 am

Auditorium

Coordinators

Mrs. Manasa C K, Asst. Prof.
Mrs. Jayashree, Asst. Prof.

Convenor

Dr. Manjula G
CSE, HoD

Dr. Ravikumar G. K.
Principal

Dr. G. T. Raju
Director





||Jai Sri Gurudev ||
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Report on Technical Talk

“The evolving Landscape of Processor Architecture “

Organized by Department of CSE, BGSCET

Title of the Program
Technical talk on “The evolving Landscape of Processor Architecture”
Venue
BGSCET Auditorium
Date & Time
4 th November 2025 at 11 AM
Participants
3 rd and 5 th semester students of all Branches
Resource Person
Prof. R Govindarajan , Department of Computer science and Automation & Super computer Education and Research Center, (IISC)
Convenor/ Coordinators
Dr. Manjula G ,HOD, Depaetment of CSE
Session Details
Session Highlights Explained Moore’s Law and how increasing transistor counts continue to boost computing performance. Discussed the evolution of Processor Architectures — from single-core to multi-core, multi-threaded, and heterogeneous designs. Covered pipelining concepts, datapath design, and pipeline hazards (structural, data, and control). Shared insights on GPUs like NVIDIA H100 — featuring 18,432 CUDA cores and 80 GB DRAM enabling massive AI workloads. Highlighted the “New Golden Age of Computer Architecture” (by Hennessy & Patterson) — focusing on

domain-specific designs and rapid chip innovation.

Reviewed the TOP 500 Supercomputers (June 2025) — with El Capitan (Japan) and Frontier (USA) leading global performance.

Explained components of a supercomputer — architecture, processors, interconnects, software, and storage working together to reach exascale performance.

Discussed OpenAI's influence on computing — how AI models and large-scale infrastructure are driving next-gen processor designs and energy-efficient systems.

Outcome/ Takeaway

- The session gave a deep understanding of how computing has advanced from terascale to exascale, blending AI, architecture, and performance engineering.
- It emphasized that the future of computing will be led by AI-driven, domain-specific, and sustainable architectures.

Poster(to include IEEE, CSI and IIC logo)



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Technical Talk
on
"The Evolving Landscape of Processor Architecture"
by
Prof. R Govindarajan
Dept. of Computer Science and Automation &
Supercomputer Education and Research Center
Indian Institute of Science (IISc)

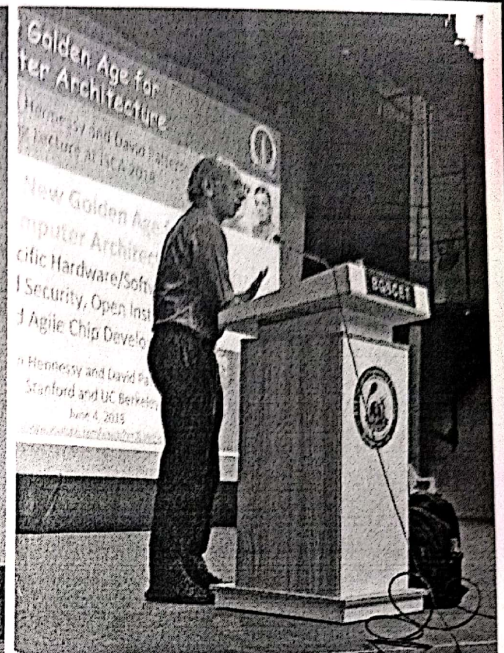
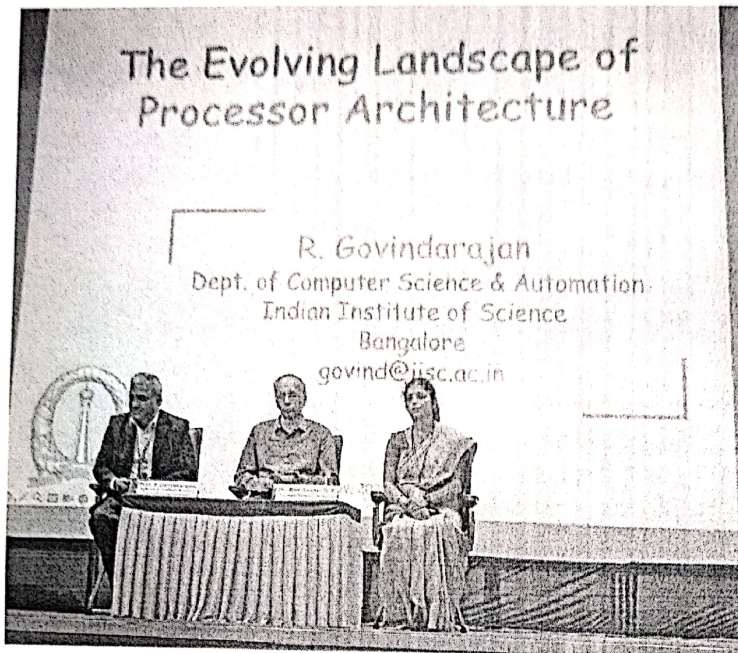


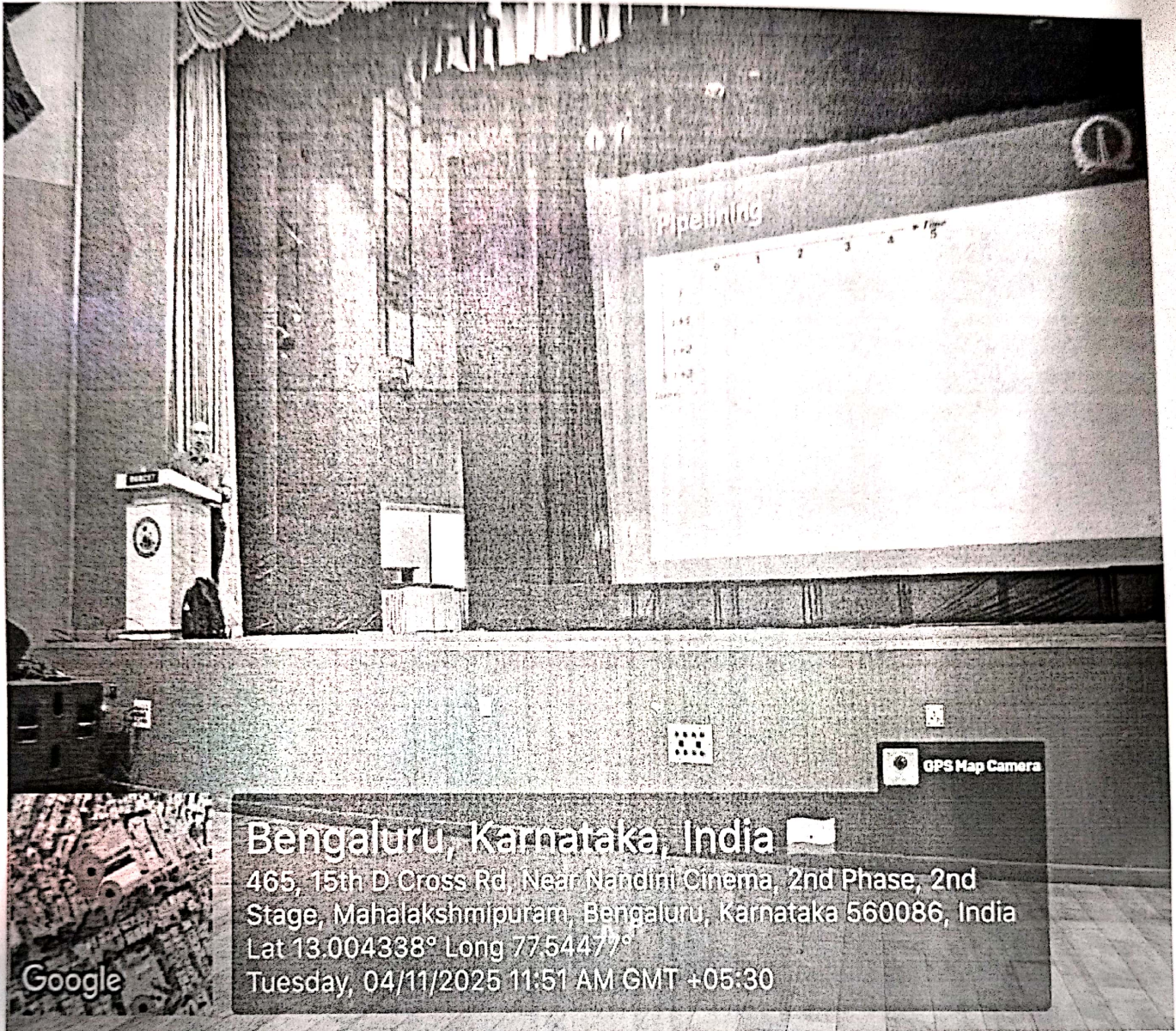
Organized by
Department of CSE

 **4th November, 2025**  **11:00 am**  **Auditorium**

Coordinators Mrs. Manasa C K, Asst. Prof. Mrs. Jayashree, Asst. Prof.	Convenor Dr. Manjula G CSE, HoD	Dr. Ravikumar G. K. Principal	Dr. G. T. Raju Director
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Photos(minimum 4 photos, photos should have good clarity)





M. Jula G.
HOD

Professor & Head

[Signature]
Principal

Dept. of Computer Science & Engg.
SS College of Engineering & Technology
Mahalakshmiipuram, Bengaluru-560 086.



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

3rd Sem Technical Talk Session

04-11-2025

Sl No.	USN	Name	sign
1	1MP24CS001	ABHIRAM S G	Abhiram S.G.
2	1MP24CS002	ADITHYA A	Adi
3	1MP24CS003	AMOGH H N	Amogh
4	1MP24CS004	AMOGH MURALI SHANBHAG	Amogh
5	1MP24CS005	AMRUTHA K G	Amrutha
6	1MP24CS006	AMULYA P	P. Amulya
7	1MP24CS007	ANMOL KUMAR	Anmol
8	1MP24CS008	ARUN RAMESH JIGALER	Arun
9	1MP24CS009	AWWAD MOHAMMED ABDULLAH	Awad
10	1MP24CS010	BHAVANA N G	Bhavana
11	1MP24CS011	BHAVANA V A	Bhavana V.A.
12	1MP24CS012	CHINMAI U	Chinmai
13	1MP24CS013	CHINMAYI A	Chinmayi
14	1MP24CS014	DARSHAN M H	Darshan
15	1MP24CS015	DASHAMI POORNASRI K M	Dashami
16	1MP24CS016	DIYA K ROHIRA	Diya
17	1MP24CS017	HALASWAMY S	Halaswamy
18	1MP24CS018	HANAMANTARAO PATIL	Hanamantarao
19	1MP24CS019	HARSHAVARDHAN H	Harshavardhan
20	1MP24CS020	HRUDAYASIMHA N M	Hrudayasimha
21	1MP24CS021	INCHARA C	Inchara
22	1MP24CS022	INDUDHAR M	Indudhar
23	1MP24CS023	KAVYA POTARADDI	Kavya
24	1MP24CS024	KEERTHANA G	Keertana
25	1MP24CS025	KEERTHI V	Keerthi
26	1MP24CS026	KSHITIJ GIRISH	Kshitij
27	1MP24CS027	LAANCHAN S	Laanchan
28	1MP24CS028	LAKSHMIKANTH H V	Lakshmi
29	1MP24CS029	LAKSHMINARAYANA H N	Lakshminarayana
30	1MP24CS030	LAKSHMISRAVYA SALADI	Lakshmisravya
31	1MP24CS031	MAANYA H S	Maanya
32	1MP24CS032	MAHENDRA GAUTAMA	Mahendra
33	1MP24CS033	MEENA S	Meena
34	1MP24CS034	MOHIT S M	Mohit
35	1MP24CS035	NIKHIL G	Nikhil
36	1MP24CS036	OM VIGHESH	Om

37	1MP24CS037	POOJITHA S MILANRAN	Poojitha
38	1MP24CS038	PRAGATHI M	Pragathi
39	1MP24CS039	PRAGATHI T C	Pragathi
40	1MP24CS040	PREETHAM J	Preetham
41	1MP24CS041	PREETHI M S	Preethi
42	1MP24CS042	RACHANA N	Rachana
43	1MP24CS043	RAHUL J	Rahul
44	1MP24CS044	RAKSHASHREE GOWDA	Rakshashree
45	1MP24CS045	RISHI B PANDEY	Rishi
46	1MP24CS046	ROHAN J	Rohan
47	1MP24CS047	ROHITH K R	Rohith
48	1MP24CS048	S SARAYU	Sarayu
49	1MP24CS049	SAGARIKA V	Sagarika
50	1MP24CS050	SAHANA U SINGANAL	Sahana
51	1MP24CS051	SAKSHI M	Sakshi
52	1MP24CS052	SHANTHALA T	Shanthala
53	1MP24CS053	SHREEVARSHAN Y J	Shreevarshan
54	1MP24CS054	SHREYA B S	Shreya
55	1MP24CS055	SHREYA R D	Shreya
56	1MP24CS056	SNEHA PATIL	Sneha
57	1MP24CS057	SRUSHTI S	Srushti
58	1MP24CS058	SUJAN T V	Sujan
59	1MP24CS059	TAJU BANU	Taju Banu
60	1MP24CS060	VARSHA N	Varsha
61	1MP24CS061	VASUNDHARA BHARANI P S	Vasundhara
62	1MP24CS062	VINAY PATIL	Vinay
63	1MP24CS063	YASHWANTH C	Yashwanth
64		CHETAN M MANTUR	Chetan
65		DEEPIKA A	Deepika
66		MADHUSUDHAN K	Madhusudhan
67		NAVEEN G	Naveen
68		PREETHI K	Preethi
69		YASHASWINI N	Yashaswini

Manasa C.K

Jayashree. MS

Faculty Co-ordinator,

M. Jyoti G
HoD.

Santhosh



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

5th Sem Technical Talk Session

04-11-2025

Sl No.	USN	Name	sign
1	1MP23CS001	Aarya Naik	Aarya Naik
2	1MP23CS002	Akshaya R	Akshaya R
3	1MP23CS003	Akshitha Akkamma I R	Akshitha Akkamma I R
4	1MP23CS004	Anush G	Anush G
5	1MP23CS005	Arya Prashanth	Arya Prashanth
6	1MP23CS006	Aryan Choudhary	Aryan Choudhary
7	1MP23CS007	Barath S Grama	Barath S Grama
8	1MP23CS008	Bestha Charan Sai	Bestha Charan Sai
9	1MP23CS009	Bhakthi S	Bhakthi S
10	1MP23CS010	Bhuvan N	Bhuvan N
11	1MP23CS011	Bindhu S	Bindhu S
12	1MP23CS012	Bindushree D	Bindushree D
13	1MP23CS013	Chaitra S Adavekar	Chaitra S Adavekar
14	1MP23CS014	Chandana Gowda	Chandana Gowda
15	1MP23CS015	Chethan Gowda N	Chethan Gowda N
16	1MP23CS016	Chinmayi P Upadhya	Chinmayi P.U
17	1MP23CS017	D Rama Siva Sai Srinivas	D Rama Siva Sai Srinivas
18	1MP23CS018	Devansh Verma	Devansh Verma
19	1MP23CS019	Dyuthi Shree N S	Dyuthi Shree N S
20	1MP23CS020	Grishma B M	Grishma B M
21	1MP23CS021	Harsha	Harsha
22	1MP23CS022	Harthik Dwivedi	Harthik Dwivedi
23	1MP23CS023	Inchara S	Inchara S
24	1MP23CS024	Jahnavi S	Jahnavi S
25	1MP23CS025	Jeevan U	Jeevan U
26	1MP23CS026	Kavana J P	Kavana J P
27	1MP23CS027	Keerthana V P	Keerthana V P
28	1MP23CS028	Keerthi B R	Keerthi B R
29	1MP23CS029	Keerthi H D	Keerthi H D
30	1MP23CS030	Keerthivardhan M	Keerthivardhan M
31	1MP23CS031	Krupa K	Krupa K
32	1MP23CS032	Mahammad Sammy	Mahammad Sammy
33	1MP23CS034	Mansi	Mansi
34	1MP23CS035	Manvilha R	Manvilha R
35	1MP23CS036	Maya	Maya
36	1MP23CS037	Mayur M	Mayur M
37	1MP23CS038	Mayur Srivathsa Y L	Mayur

39	IMP23CS040	Meghana P	Meghana
40	IMP23CS041	N H San Geyn	N H San Geyn
41	IMP23CS042	Nishantha M K	Nishantha M K
42	IMP23CS043	Nusrat Jahan Makandar	Nusrat Jahan Makandar
43	IMP23CS044	Pooja M S	Pooja M S
44	IMP23CS045	Prabhat S Gowda	Prabhat S Gowda
45	IMP23CS046	Poojith AN	Poojith AN
46	IMP23CS047	Rakesh N Gowda	Rakesh N Gowda
47	IMP23CS048	Rakesha G	Rakesha G
48	IMP23CS049	Rohini S	Rohini S
49	IMP23CS050	Rohith Gowda R	Rohith Gowda R
50	IMP23CS051	Rohith K Pawar	Rohith K Pawar
51	IMP23CS052	S Deeksha	S Deeksha
52	IMP23CS053	Sahana T H	Sahana T H
53	IMP23CS054	Sandeep	Sandeep
54	IMP23CS055	Sneha Babu Indi	Sneha Babu Indi
55	IMP23CS056	Srija Sai	Srija Sai
56	IMP23CS057	Sudheeksha R Kashyap	Sudheeksha R Kashyap
57	IMP23CS058	Tanush V Unki	Tanush V Unki
58	IMP23CS059	Venugopal K R	Venugopal K R
59	IMP23CS060	Vibha J	Vibha J
60	IMP23CS061	Vishak N	Vishak N
61	IMP23CS062	Yagna Maurya M V	Yagna Maurya M V
62	IMP23CS063	Yashaswini R	Yashaswini R
63	IMP24CSs400	Yogesh Ganapati Naik	Yogesh Ganapati Naik
64	IMP23CS064	Bindushree S	Bindushree S
65	IMP24CS401	Hema E	Hema E
66	IMP24CS402	Gautam Kumar D M	Gautam Kumar D M
67	IMP24CS403	Rakshitha S	Rakshitha S
68	IMP24CS404	Sagar A	Sagar A
69	IMP24CS405	Sarvesh S Pednekar	Sarvesh S Pednekar
		Srinivasulu G	Srinivasulu G

Manasa.C.K
Jayashree.MP
Faculty Co-ordinator,

M. Jyoti G.
HoD.

Love