REPORT
On
INDUSTRIAL VISIT
Centre for Development of Advanced Computing
(C-DAC), Bangalore on 27.10.2023 for B.Tech/ IT
2nd Year (3rd Semester)

organised by

DEPARTMENT OF INFORMATION TECHNOLOGY

School of Computer, Information and Mathematical Sciences

October 2023

On October 27, 2023, 49 students from II year, B. Tech IT along with two faculty members – Mr. Mohammed Wajid Khan and Mrs. Ishwariya Franklin – started for industrial visit to C-DAC, Bangalore. It was a wonderful opportunity to explore cutting-edge technology, particularly the PARAM Utkarsh Supercomputer at the Centre, established under the National Supercomputing Mission (NSM) of the Government of India.

About C-DAC

C-DAC, Bengaluru - established in 1989, is the second centre of C-DAC, dedicated to research and solutions in System Software for PARAM series of supercomputers. Notably, PARAM Padma, housed at the Terascale Supercomputing Facility, achieved acclaim by ranking in the Top 500 Supercomputers.

The centre's flagship PARAM Utkarsh Supercomputing facility plays a pivotal role in the National Supercomputer Mission. It offers a comprehensive suite of HPC System Software solutions, including AI frameworks and big data software suites, tailored to diverse scientific application domains.

Renowned for its expertise in HPC, Grid Computing, Cyber Security, and IoT, C-DAC Bengaluru excels in providing cutting-edge solutions. Its portfolio includes cloud security, next-gen SCADA systems, and Indian Language computing, showcasing indigenous innovation.

OBJECTIVES OF VISIT

- Gain insight into the research and development activities conducted at the C-DAC Bengaluru Centre.
- Understand the infrastructure and facilities available, especially the PARAM Utkarsh Supercomputing facility.
- Explore the range of products and services offered by the centre
- Learn about the centre's training programs and educational initiatives in emerging technology areas.
- Identify potential areas for collaboration or partnership with the centre in relevant sectors.
- Interact with key personnel and experts to exchange knowledge and discuss industry trends.
- Gather insights and recommendations for potential future engagements or projects.

Visited Student Details:

S.No	RRN No.	Student Name
1.	220081601001	AAMINA FATHIMA
2.	220081601003	ABIRAMA VARSHINI V
3.	220081601004	ABIRAMI M
4.	220081601006	AHAMED ABDEEN S A C
5.	220081601008	ASHWIN N
6.	220081601009	ASHWINI S
7.	220081601010	ASIN FATHIMA S
8.	220081601011	AVANTHIKA ARAVIND
9.	220081601013	EMADEEN S
10.	220081601014	FARHAT NAUSHEEN
11.	220081601015	GAUTHAM RISHAB S
12.	220081601016	GOWTHAM S
13.	220081601017	GUNALINI R
14.	220081601018	HARINI G
15.	220081601019	HARISH HASAN M
16.	220081601020	HISHAAM AHAMED M
17.	220081601025	JERLIN SIBIYAL A
18.	220081601026	KHALID SULTAN K
19.	220081601028	MAMTA NASREEN
20.	220081601029	MOHAMED ABDUL AZEEZ
21.	220081601031	MOHAMED FAIZ M R
22.	220081601033	MOHAMED FAZIL A
23.	220081601034	MOHAMED ISMAIL FAIZAL M
24.	220081601036	MOHAMED JASEEN M
25.	220081601037	MOHAMED JASIM A
26.	220081601038	MOHAMED MUHSIN
27.	220081601040	MOHAMED NIHAL
28.	220081601041	MOHAMED RIDHWAN R
29.	220081601043	MOHAMMAD HARIS YOUSUF
30.	220081601045	MOHAMMED IMTHIYAS S
31.	220081601046	MOHAMMED OMAR RAHMAN

32.	220081601047	MOHAMMED SAIFUDDEEN S
33.	220081601048	MUHAMMAD HAMTHAN
34.	220081601049	MUHAMMADH M
35.	220081601050	MURSHITHA PARVEEN. M
36.	220081601051	MUSHFIQ AHMAD
37.	220081601052	NADEEM ISMAIL M
38.	220081601055	PREMNATH R
39.	220081601056	REEMA SHEAIK
40.	220081601058	RISHIKA RAI
41.	220081601060	SHAHUL HAMEED ASSAF M M
42.	220081601061	SHRINIVAS J R
43.	220081601062	SIDDIQUE S A
44.	220081601063	SUMAIYA FAZARIA P J
45.	220081601065	SWETHA K
46.	220081601068	UMAR FAROOK RIZWAN H
47.	220081601069	VALAI MOHAMMED NABHAN
48.	220081602002	ASHWANTH JOEL P
49.	220081602005	ROSHAN ADHITHYA V.P

Faculty Coordinators:

1. Mr. Mohammed Wajid Khan, AP/ IT
2. Ms. Ishwariya Franklin, AP/ IT

The visit commenced with an introduction to C-DAC Bengaluru Centre, highlighting its role as a premier R&D organization under the Ministry of Electronics and Information Technology (MeitY). Students learned about the centre's evolution since its establishment in 1988 and its significant contributions to Indian Language Computing Solutions and the development of indigenous supercomputers.

During the visit, students were provided with resources to further their understanding of the PARAM Utkarsh Supercomputer and its capabilities. Websites and learning materials were shared, enabling continued exploration and knowledge enhancement beyond the visit. Moreover, the centre highlighted probable internship opportunities for students interested in utilizing the supercomputer's facilities for their research.

The visit concluded with insights into the historical context of C-DAC's supercomputing journey, tracing back to the establishment of the organization in 1988. Students learnt about the National Supercomputing Mission (NSM) and its objectives to meet the increasing computing demands of the scientific and research

community, aligning with the government's vision of "Digital India" and "Make in India."

OUTCOMES OF VISIT

- **Enhanced Understanding of Supercomputing Technology:** Students gained a deeper understanding of supercomputing technology, particularly through the exploration of the PARAM Utkarsh Supercomputer's capabilities and specifications.
- **Awareness of Research and Development Initiatives:** The visit provided insight into the ongoing research and development initiatives at C-DAC Bengaluru Centre, highlighting its contributions to areas such as artificial intelligence, big data analytics, and cloud computing.
- **Potential Collaboration Opportunities:** Students identified potential collaboration opportunities with C-DAC Bengaluru Centre, particularly in leveraging the PARAM Utkarsh Supercomputer for research projects or exploring internship opportunities.
- **Education and Career Development:** The visit provided valuable educational insights for students interested in pursuing careers in high-performance computing, offering a glimpse into real-world applications and opportunities within the field.

CDAC- Bangalore (Industrial Visit for B.Tech/ IT – 2nd Year)
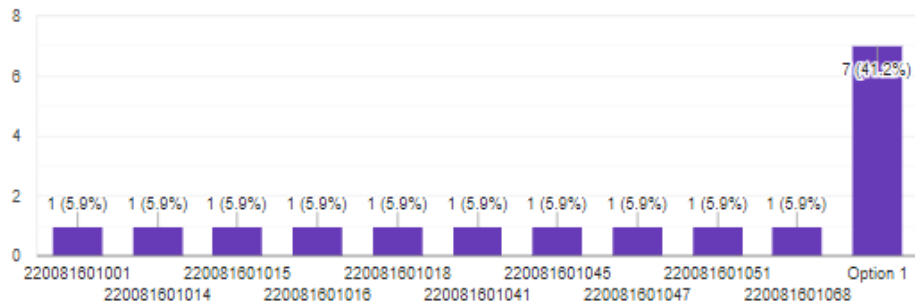**27.10.2023**

Students Feedback:

RRN

17 responses

Did the visit provide clarity on its objectives and contributions to the field?

17 responses

- Yes
- No

100%
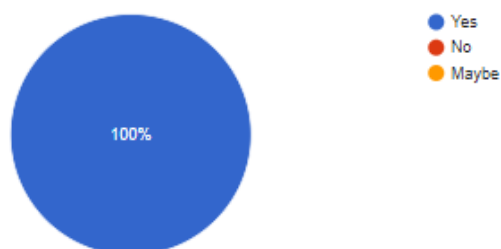
Did the resources provided during the visit enhance your understanding of the PARAM Utkarsh Supercomputer and its capabilities?

17 responses

- Yes
- No
- Maybe

100%
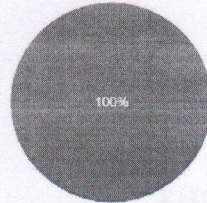
Did the resources provided during the visit enhance your understanding of the PARAM Utkarsh Supercomputer and its capabilities?
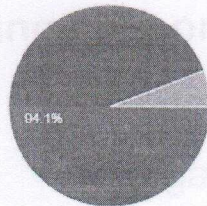
17 responses

- Yes
- No
- Maybe

100%

Did the visit meet your expectations in terms of providing insights into C-DAC's supercomputing initiatives and their broader significance?
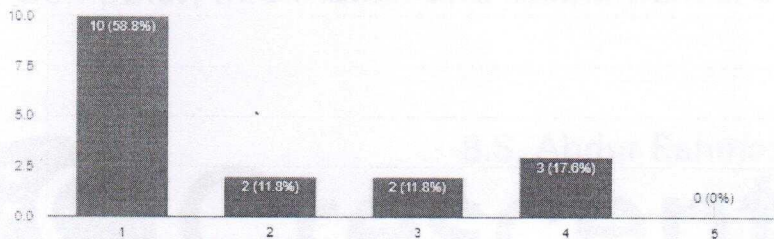
17 responses

- Yes
- No
- Maybe

94.1%

How would you rate your overall visit

17 responses

Rating	Count
1	10 (58.8%)
2	2 (11.8%)
3	2 (11.8%)
4	3 (17.6%)
5	0 (0%)

31/10/23

Class Advisor

(Dr. Mohammed Wajid Khan)

31/10/2023.

HOD/ IT

(Dr. N.Prakash)

B.S. Abdur Rahman
Crescent
Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956
GST Road, Vandalur, Chennai 600 048

Mohammed Wajid Khan <wajidkhan@crescent.education>

Thankyou for registration

5 messages

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utkarshspprt@gmail.com <utkarshspprt@gmail.com>   Tue, Oct 3, 2023 at 1:30 PM
To: wajidkhan@crescent.education

Thankyou for the registration.
Your Registration id is : PU-0012.
Report to below address at 2:30 PM.
Please bring original hard copy of college approval letter.
For cancellation you can use below link:
https://paramutkarsh.cdac.in/deregistration/

Thanks and Regards,

PARAM Utkarsh Support Team
CDAC-KP

Mohammed Wajid Khan <wajidkhan@crescent.education>   Tue, Oct 3, 2023 at 5:10 PM
To: HOD IT <hodit@crescent.education>

[Quoted text hidden]

Mohammed Wajid Khan <wajidkhan@crescent.education>   Tue, Oct 10, 2023 at 10:50 AM
To: utkarshspprt@gmail.com, utkarsh-support@cdac.in
Cc: HOD IT <hodit@crescent.education>

Dear Sir/ Madam,

Our Registration id is : PU-0012.
We would like to express our gratitude for the confirmation of our industrial visit to PARAM UTKARSH CDAC (Centre for Development of Advanced Computing). We are eagerly looking forward to this valuable learning opportunity.
However, we noticed that we haven't received a specific date or formal confirmation regarding the scheduled date for our visit. In order to make necessary arrangements and inform our participants, it is imperative that we have the exact date for the visit.
The date requested by us is 27.10.2023, Hence in this regards would you please confirm for the same

Regards
Mr. Mohammed Wajid Khan
Assistant Professor-IT
BSACIST

[Quoted text hidden]

P SOUNDARARAJAN <psrajan@cdac.in>   Tue, Oct 10, 2023 at 11:11 AM
To: Mohammed Wajid Khan <wajidkhan@crescent.education>
Cc: HOD IT <hodit@crescent.education>, Param Utkarsh Support Team <utkarsh-support@cdac.in>

Dear Sir,

Please talk to Sh.Guru Prasad, Admin(Manager) for Industrial visit

Contact No: 080-35093410

with best regards

P.Soundararajan