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REPORT Industrial Visit to CDAC

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- Submitted by: Team ENTESA
- Date of Submission: 20/09/2024
- Organised by: Team ENTESA

Activity Type	Technical Educational Visit							
Activity Title	Industrial Visit to CDAC							
Date(s) of	9/08/2024 and 30/08/2024							
Activity								
Duration	11:45 AM to 3:45PM (4 hrs)							
Target	Third Year E&TC Students							
Audience	S A I							
Brief	The industrial visit to CDAC (Centre for Development of Advanced							
Description of	Computing) was organized to provide students with hands-on exposure to							
the activity	the world of server technology and high-performance computing. The							
	session was both informative and engaging, giving students insights into the							
	architecture of servers, their performance metrics, and CDAC's role in							
	advancing computing in India.							
	Key Highlights of the Visit:							
	Overview of CDAC:							
	We were introduced to CDAC's history, focusing on its role in India's							
	supercomputing journey. The establishment of CDAC in 1988 led to							
	the development of India's first supercomputer, PARAM, which							
	marked a significant milestone in the nation's technological							
	advancement.							
	Technical Insights into Servers:							
	The session covered the various types of servers used at CDAC,							
	including their architecture, core configuration, and costing.							
	Information about the number of cores and the processing power of							
	servers ranging from [insert number] cores was provided,							
	demonstrating how CDAC manages large-scale computing tasks.							
	Costing and Performance:							
	The presenters detailed the cost structure of different server							

	configurations. Costs varied depending on the number of cores and computing power. We also learned about the performance metrics									
	used to assess server efficiency, such as FLOPS (Floating Point									
	Operations per Second).									
	CDAC's Milestones:									
		In addition to the technical insights, CDAC's contribution to national								
		projects like e-governance, language computing, and cybersecurity								
		were shared. These efforts reflect CDAC's commitment to India's								
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Objectives	1. Understand Server Architecture: To provide students with detailed knowledge about the structure, functionality, and different configurations of servers used at CDAC.									
	2. Learn About Costing and Scalability: To explore the factors									
	affecting the cost and scalability of servers, including core counts,								ounts,	
	3 Annreciate High-Performance Computing (HPC). To understand									
	the significance of high-performance computing in addressing									
		comp	olex c	ompu	tation	al proble	ems and	how CDA	AC contribute	es to HPC
		deve	lopme	ent.			WEE/	91.		
	4.	4. Gain Industry Exposure: To expose students to real-world								
		appli	cation	is of s	ervers	s and IT	infrastru	icture, he	lping them re	late
	E.	Fam	elical iliariz	conce ze wit	b CD	AC's R	al scenar	105. tional P	rojects. To le	arn about
	0	CDA	C's c	ontrib	utions	s to vario	ous gove	rnment p	rojects such a	IS
	15	super	rcomp	outing	, e-go	vernance	e, and cy	bersecuri	ity.	
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(Add Mapped level	POI	PO2	PO5	PO6	PO8	PO10	PO12	- /	S	
1,2,5)	3	2	3	2	2	2	3		Ő	
PSO's	PSO	PSO	PSC)					C1/	
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(Add Mapped level 1,2,3)	42	2	2						10	
Resource	Yoges	s <mark>h s</mark> ir,	CDA	C, Pu	ne				<	
Person(s) (If applicable)			-				DA			
Outcomes	1.	Enha	anced	Tech	nical	Unders	tanding	Students	s gained pract	tical
		insig	hts in	to ser	ver ar	chitectur	e, comp	uting core	es, and perfor	mance,
		stren	gthen	ing th	eir teo	chnical k	nowledg	ge.		
	2.	Awa	renes	s of C	ost Si	tructure	s: The s	ession pr	ovided valual	ole
		infor	matio	n on l	iow th	ne cost o	f servers	1s detern	nined by their	lanationa
		specifications, allowing students to understand budget considerations								
	3 Application of Theoretical Concents: Students were able to connect									
		classroom concepts to real-world scenarios, bridging the gap between								
	academia and industry practices.									

	 4. Exposure to Cutting-Edge Technologies: The visit highlighted advanced technologies like high-performance computing, which broadened students' awareness of modern computing techniques. 5. Knowledge of CDAC's National Contributions: Students developed an understanding of CDAC's critical role in India's technological advancements, particularly in projects related to national security and supercomputing.
Photos/Video	Event Photos :-
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	Image: Strate
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	Des Map Camera
	Google Google



Dr. S. A. Bhisikar Prof. S. Chaudhari Prof. Dipali Chatrikar **Faculty Co-ordinators**