



PRAGATI ENGINEERING COLLEGE

(Autonomous)

ADB Road, Surampalem, Near Peddapuram, Kakinada Dist., A.P. – 533 437

(Approved by AICTE, Permanently Affiliated to JNTUK Kakinada & Accredited by NAAC with A+ Grade)

(Recognized by UGC Under Sections 2(f) and 12 (b) of UGC act, 1956)

Ph: 08852 – 252233, 252234, 252235 Fax: 08852 – 252232, website: www.pragati.ac.in

Learning is Supreme Felicity

DEPARTMENT OF INFORMATION TECHNOLOGY & CSE (Cyber Security)

Date: 23-02-2026

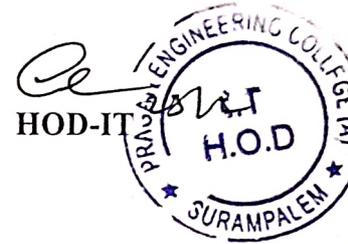
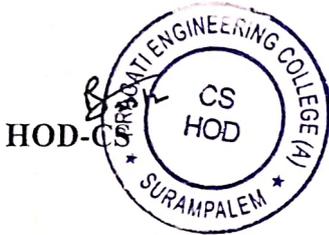
CIRCULAR

All the students are hereby informed that Department of Information Technology & CSE-CS is organizing a technical event on “Real World Database Design & SQL Optimization Challenge” on the eve of National Engineer’s Week on 27th February 2026.

Name of the Event: Real World Database Design & SQL Optimization Challenge

Date of the Event: 27th February 2026

Venue: ES-7, ECE Block





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(AUTONOMOUS)



PRESENTS

NATIONAL ENGINEERS' WEEK

DEPARTMENT OF IT & CSE-CS

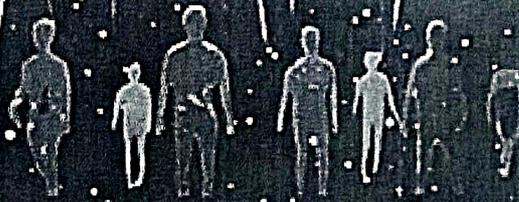
Organizing an Event

**"Real-world Database design &
SQL Optimization challenge"**



VENUE: ES-7 (ECE BLOCK)

DATE : 27 FEBRUARY 2026



SCAN ME!





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DEPARTMENT OF INFORMATION TECHNOLOGY & CSE (Cyber Security)

TECHNICAL EVENT REPORT

ON

“Real-world Database Design & SQL Optimization Challenge” ON THE EVE OF “NATIONAL ENGINEERS’ WEEK”

Dt: 27.02.2026

Department of Information Technology and CSE (Cyber Security) organized a technical event titled “Real-world Database Design & SQL Optimization Challenge” as part of the National Engineers’ Week Celebrations 2026.

- The primary objective of the event was to enhance students’ practical understanding of database design principles and SQL query optimization techniques used in real-world industry applications.
- The challenge aimed to strengthen problem-solving skills, analytical thinking, and performance tuning knowledge among students in the areas of data management and backend systems.
- Participants were given real-time case studies such as E-commerce platforms, Banking systems, Hospital management systems, and University databases. The event consisted of multiple rounds including:
 - Database schema design (ER Modeling & Normalization)
 - Writing complex SQL queries using joins, subqueries, and aggregate functions
 - Query optimization and indexing strategies
 - Performance improvement using execution plan analysis
- Students demonstrated their ability to design efficient relational databases, ensure data integrity using constraints, and optimize queries for better performance and scalability.
- Faculty members evaluated the participants based on:
 - Database design accuracy
 - Query correctness and efficiency

The Department extends its appreciation to all participants and faculty coordinators for making the event a grand success. Certificates were awarded to winners and runners-up in recognition of their outstanding performance.

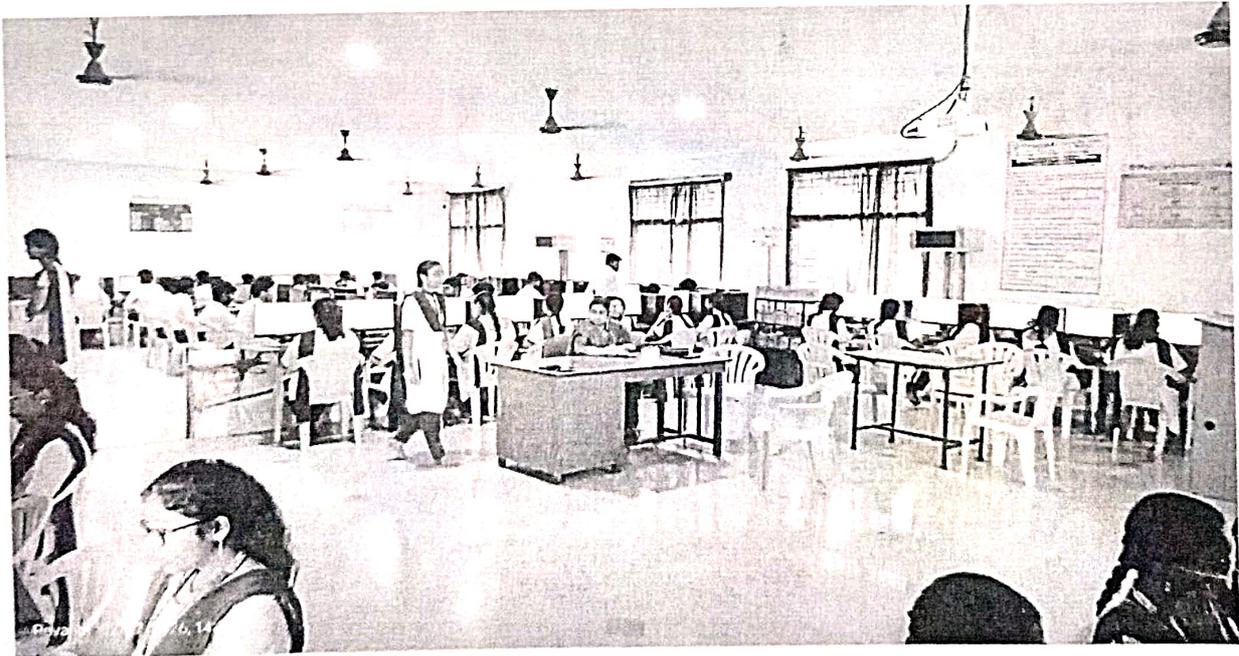
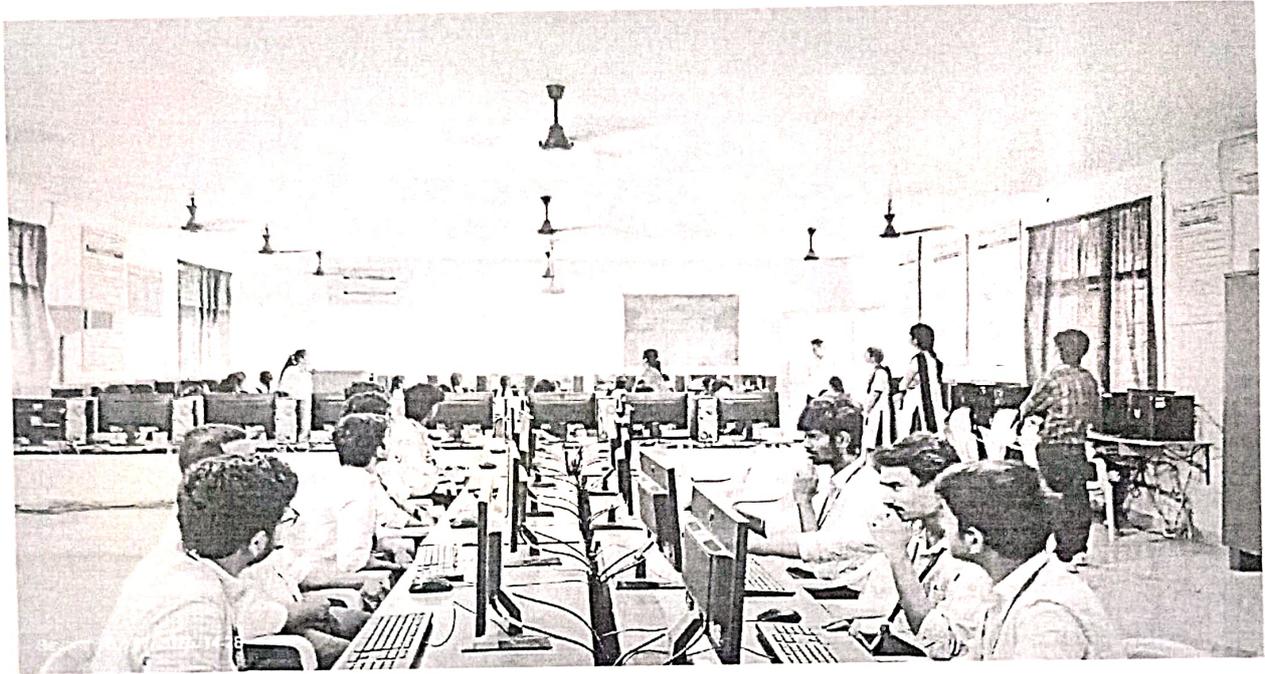


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DEPARTMENT OF INFORMATION TECHNOLOGY & CSE (Cyber Security)



S.No.	Name of the Student	Year and Branch	Prize
1.	S.Anjali Devi	II IT	Winner
2.	B.Pavan kumar	III ECE	Runner



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DEPARTMENT OF CYBER SECURITY

Topic: Real World Database Design & SQL optimization challenge

Event Name: Virtual Engineers Ideas

Date: 27-02-2026

S. No	Name of the Student	Department	Signature
1.	M. Sri Varsha	Cyber Security	M. Sri Varsha
2.	P. Vinetha Salya	Cyber Security	P. Vinetha Salya
3.	Ch. Geeta Sahithi	Cyber Security	Ch. Geeta Sahithi
4.	K. Pravalika	Cyber Security	K. Pravalika
5.	B. Gayatri	Cyber Security	B. Gayatri
6.	K. Sri Aditya Vaishnavi	Cyber Security	K.S.A. Vaishnavi
7.	P. Papa	Cyber Security	P. Papa
8.	G. Sai Sreha	Cyber Security	G. Sai Sreha
9.	R. Madhuvima	Cyber Security	R. Madhuvima
10.	K. Badrini	Cyber Security	K. Badrini
11.	Abilashya B	Cyber Security	Abilashya B
12.	K. Akshaya Leethi	Cyber Security	K.A. Leethi
13.	B. Hemamadhulika	Cyber Security	B. Hemamadhulika
14.	G. Sri Naga Sai Durga Mani	Cyber Security	G.S.N.S.D. Mani
15.	P. Hari Priya	Cyber Security	P. Hari Priya
16.	K. AKshaya	Cyber Security	K. AKshaya
17.	V. Jyothi Charan	Cyber Security	V. Jyothi Charan
18.	B. Pavan Kumar	ECE	B. Pavan
19.	K. Mohan Prasad	Cyber Security	K. Mohan
20.	D. H. N. S. Manikanta	Cyber Security	D. H. N. S. Manikanta
21.	P. Sathwick	Cyber Security	P. Sathwick
22.	G. Gowtham Sai Satya	Cyber Security	G. Gowtham Sai Satya
23.	A. Chandra	Cyber Security	A. Chandra
24.	G. Naveen	Cyber Security	G. Naveen
25.	G. Anand Kumar	Cyber Security	G. Anand Kumar
26.	K. Surendar	Cyber Security	K. Surendar
27.	M. V. D. Karthik	Cyber Security	M. V. D. Karthik
28.	P. Lokesh Sri Rang	Cyber Security	P. Lokesh Sri Rang
29.	A. Raghuram	CSE (CS)	A. Raghuram
30.	K. Sai Swarup	CSE (CS)	K. Sai Swarup
31.	A.V. Sathyanarayana	CSE (CS)	A.V. Sathyanarayana

