PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

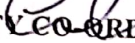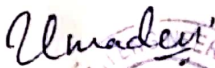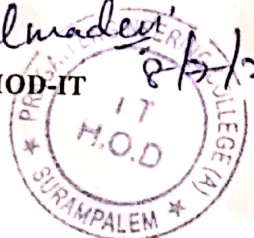## DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 08-07-2024

CIRCULAR

It is hereby informed to all the Students of III B.Tech. that "CLOUD COMPUTING" club of IT Department in association with Career Guidance cell organizing a seminar on **"CLOUD DEVOPS AND CI/CD"** on 10-07-2024. The students who are interested should register through the following link:

Registration link for the session:
https://forms.gle/1LSe4GepVLbXiMjj8

Mode: Offline
Time: 10 AM to 11 AM
Venue: S25, Main block.

FACULTY CO-ORDINATOR

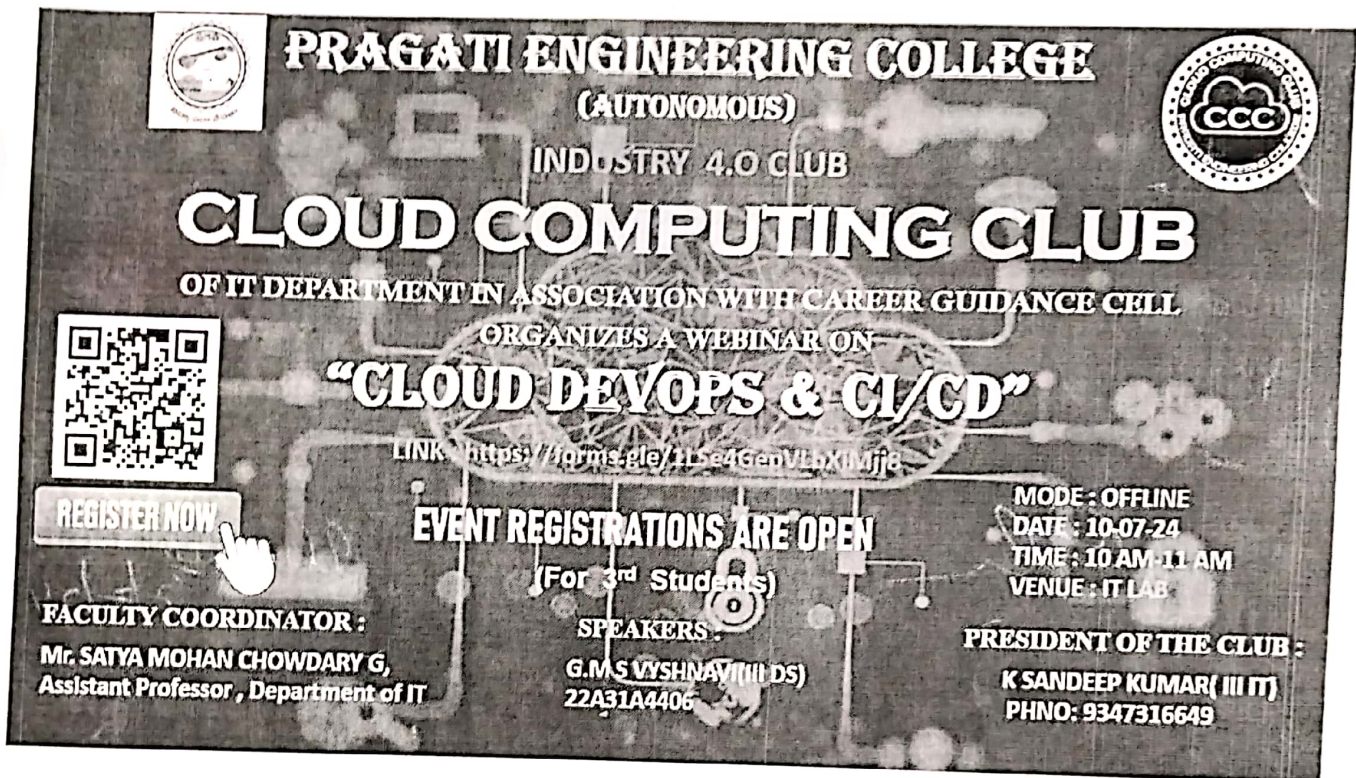HOD-IT 8/7/24

PRAGATI ENGINEERING COLLEGE
(AUTONOMOUS)
DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 10-07-2024
Day : Wednesday

"CLOUD COMPUTING CLUB" of IT Department in association with Career Guidance cell organized a seminar on "CLOUD DEVOPS AND CI/CD"

Registration link for the session:-
https://forms.gle/1LSe4GepVLbXiMjj8

PRAGATI ENGINEERING COLLEGE

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DEPARTMENT OF INFORMATION TECHNOLOGY

List of students from III year have been registered for the Seminar.
Branch wise report is as follows:-

Name	Roll no	Branch	Year
Uma Sai kiran.Ponnada	22A31A1255	IT	III
M PAVITHRA	23A35A1202	IT	III
Chollangi Jahnavi	22A31A1204	IT	III
Ummanaboyina Triveni	22a31a1226	IT	III
ODURI K N SURYA PRAKASH	22A31A1254	IT	III
Lalitha Raja Sri Gedda	22A31A1208	IT	III
GUTTULA.VENKATA PRIYA	22A31A1211	IT	III
N. Vasavi	22A31A1219	IT	III
G.R.L.Deepika	22A31A1209	IT	III
Bantumilli Rahena	22A31A1203	IT	III
Digumarthi Varshitha	22A31A1231	IT	III
S.Yashwitha	22A31A1224	IT	III
RAMNATH BUDI	22A31A0431	ECE	III
K.Vinodini	22A31A1215	IT	III
G.Ravi kumar	22A31A0361	MECH	III
Oruganti.SuryaRao	22A31A0376	MECH	III
Adilakshmi	22A31A1223	IT	III
OLETI.VIJAYKUMAR	22A31A0454	ECE	III
S.Pallavi	22hr1a0598	CSE	III
ALLADA SRI HARISH	22A31A0428	ECE	III
Polina Sai Satvika	22A31A4477	Data science	III
MADHAVARAPU CHANDRA SEKHARA SRI SAI	22A31A4446	CSE	III
Srividya	22a31a0221	EEE	III
Ch. Sri Bindu Patvika	22A31A4405	CSE-DS	III
Sumedha Hemadri	22A31A4409	CSE(DS)	III
Sanjana vasupilli	22A31A43E1	CSE artificial intelligence	III
BHAVIRI SRI GANESHA SEETHA HANUMA GOWRI	22A31A4467	CSE(DS)	III
Mudunuri Karthik Surya Sai varma	22A31A42B6	AI&ML	III
KORUBILLI MANOJ KUMAR	23A35A4407	CSE	III
Sivakoti Lakshmi Satya Narayana	22A31A0462	ECE	III
PENKE SREERAMKASULU	22A31A42C0	CSE(AI&ML)	III
KALLA PAVAN	22a31a0231	EEE	III
Bejjipuram Jahnavi	22A31A4466	Data science	III
BALABHADRUNI L V H S SURYA GOPAL	22A31A4434	CSE (DS)	III
tania jenny. eeti	22a31a04j9	ECE	III
Renuka Chowdary	22A31A1218	IT	III
Jada mounika sri	22A31A1212	IT	III
SATYANARAYANA GUNTA	22A31A0439	ECE	III
T.charan	22A31A1262	IT	III
Deepak	22A31A1247	IT	III

Jada srikanth	22a31a1254	IT	III
Boddu sri vishnu	22A31A1237	IT	III
Pranathi	22a31a1301	IT	III
Padmaja valluri	22A31A1230	IT	III
Vallabhaneni V V N Sri Vaishnavi	22A31A1229	IT	III
Boddu sri vishnu	22A31A1237	IT	III
Pranathi	22a31a1301	IT	III
Padmaja valluri	22A31A1230	IT	III
Vallabhaneni V V N Sri Vaishnavi	22A31A1229	IT	III
Shagufta jabeen	22A31A1217	IT	III
K.sukumar	22A31A1249	IT	III
Sanapala pradeep	22A31A44B2	Ds	III
Guraja Jayachandra	22A31A4492	CSE	III
D RAKESH	22A31A4436	CSE (DS)	III
Voleti vasanth	22A31A44C3	DATA SCIENCE	III
Kunche Vinay Kumar	22A31A4445	CSE(DS)	III

The session "CLOUD DEVOPS AND CI/CD" was taught by G.M S Vyshnavi(III)

Here are the pictures of our offline meeting that we've conducted:-
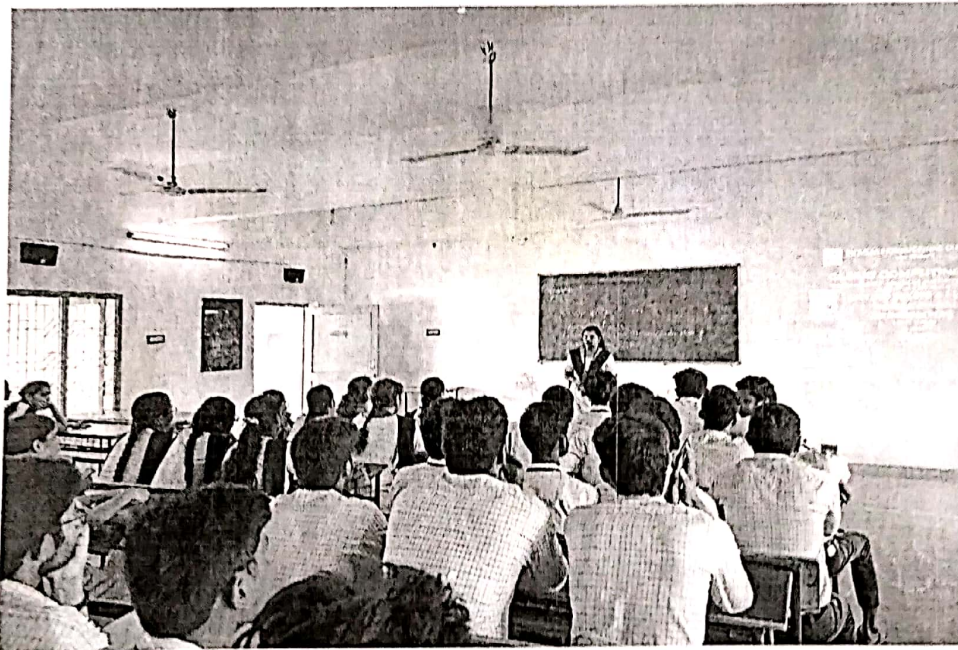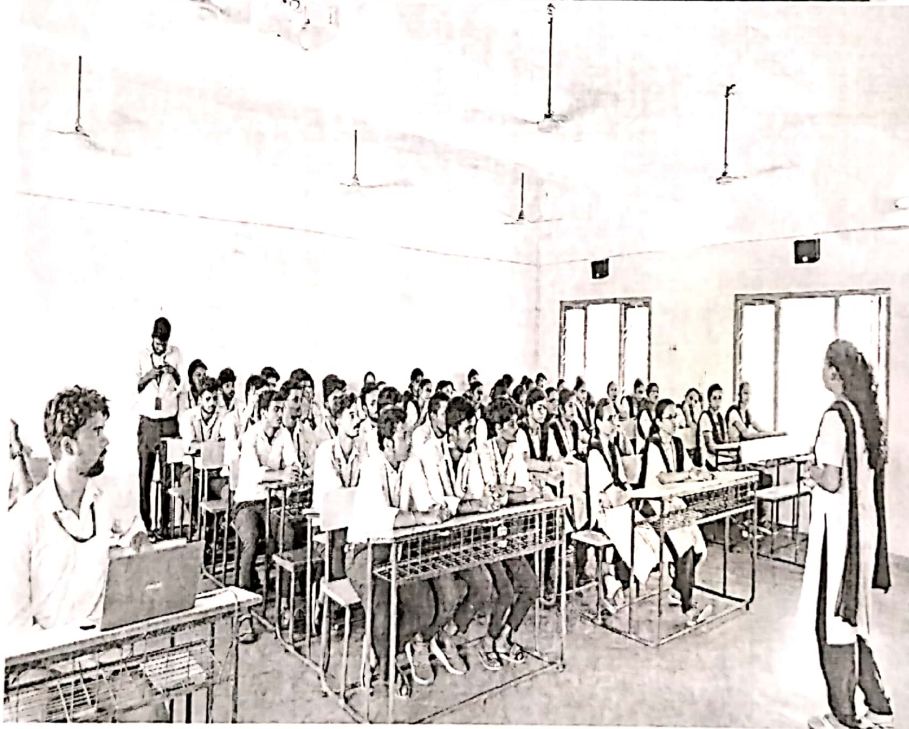
PRAGATI ENGINEERING COLLEGE
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DEPARTMENT OF INFORMATION TECHNOLOGY

Surampalem, Andhra Pradesh, India
33M3+8V4, Surampalem, Andhra Pradesh 533437, India
Lat 17.083052°
Long 82.054132°
10/07/24 10:45 AM GMT +05:30

Surampalem, Andhra Pradesh, India
33M3+8V4, Surampalem, Andhra Pradesh 533437, India

Cloud Deployment and CI/CD:

Cloud development refers to building and deploying applications on cloud platforms. CI/CD, or continuous integration and continuous delivery, are practices that automate the software development process.
Data access after a catastrophic event such as hardware failure, natural disasters, cyberattacks, or human error.

Devops and clouds:

- DevOps teams benefit from scalable cloud resources, accelerating the build, test, and deployment process.
- Cloud adoption has boosted DevOps methods due to their suitability for continuous, rapid processes.
- Unlike traditional methods, cloud applications continuously evolve, enhancing products but posing challenges.
- DevOps practices, essential for "as a Service" (XaaS) products, enable efficient, scalable development in the cloud.

Benefits of Cloud-Based Development:

- ✓ The process of switching to a backup system, data center, or cloud service when the primary system fails.

- ✓ The process of reverting operations back to the primary system after it has been restored and is operational.

Cloud-Based Disaster Recovery Solutions

Backup as a Service (BaaS):
> Cloud providers offer managed backup solutions where backups are automatically taken and stored in the cloud.

Disaster Recovery as a Service (DRaaS):
> A comprehensive service that includes not only data backup but also the entire IT environment, including applications, operating systems, and configurations. Often includes automated failover and failback processes.

Hybrid Solutions:
> Combines on-premises and cloud resources to provide a balanced approach, leveraging existing infrastructure while utilizing cloud capabilities for added resilience.

What is Business Continuity Plan ?

A Business Continuity Plan (BCP) in cloud computing is a strategic and tactical approach that ensures the continuous operation of business functions and services during and after a disruption. It leverages cloud technologies to enhance resilience, scalability, and recovery capabilities. **Testing and Exercises**

- ✓ Perform annual full-scale disaster recovery drills.
- ✓ Conduct quarterly tabletop exercises to discuss different disruption scenarios.

Maintenance and Review

- ✓ Review and update the BCP annually or after any significant business change

Real-Time Example

Scenario: E-commerce Company Facing a Cyberattack

Steps to Scenario :

> **Incident :**
- ✓ The company's on-premises data center is hit by a sophisticated ransomware attack, encrypting critical databases and applications, rendering them unusable.

> **DR Activation :**
- ✓ The DR plan is triggered. The company has been using **Disaster Recovery as a Service (DRaaS)**, which includes continuous data replication to a cloud-based environment.

Security considerations for cloud native applications:

- Cloud
- Cluster
- Container
- Code

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We've provided a feedback link to the participants and the feedback given by them is as follows:

Name	Roll no	Year	Feedback
RAKESH KUSUMA	22A31A1251	III	Good
JONNADA NARASIMHA THRIBHUVAN	22A31A1246	III	Excellent
Deepak	22A31A1247	III	Excellent
Sumedha Hemadri	22A31A4409	III	Excellent
Samireddi Adilakshmi	22A31A1223	III	Excellent
Renuka Chowdary	22A31A1218	III	Good
Pranathi	22a31a1201	III	Good
Ch Sri Bindu Patvika	22a31a4405	III	Excellent
P.l.reethuka	22A31A1220	III	Good
JADA MOUNIKA SRI	22A31A1212	III	Good
G Satyanarayana	22A31A0439	III	Excellent
G.R.L.Deepika	22A31A1209	III	Good
M PAVITHRA	23A35A1202	III	Excellent
S.Yashwitha	22A31A1224	III	Excellent
Chollangi Jahnavi	22A31A1204	III	Excellent
K.Vinodini	22A31A1215	III	Good
Gedda Lalitha Raja Sri	22A31A1208	III	Good
Sivakoti Lakshmi Satya Narayana	22A31A0462	III	Good
Digumarthi Varshitha	22A31A1231	III	Good
N. Vasavi	22A31A1219	III	Excellent
Ummanaboyina Triveni	22a31a1226	III	Excellent
Bantumilli Rahena	22A1A1203	III	Good
NEELAM SREE AMRUTHA	22A31A4418	III	Excellent
RAMNATH BUDI	22A31A0431	III	Good
Sanjana	22a31a4426	III	Excellent
K.sukumar	22A31A1249	III	Excellent
p.s.s.v.sumanvitha	22a31a4425	III	Excellent
Padmaja Valluri	22A31A1230	III	Good
BALABHADRUNI L V H S SURYA GOPAL	22A31A4434	III	Excellent
ALLADA SRI HARISH	22A31A0428	III	Excellent
K.Shreya	22A31A4410	III	Excellent
Vaddi Hanumantha Rao	23A35A1205	III	Excellent
Sai Varshitha Kuppili	22A31A0518	III	Excellent

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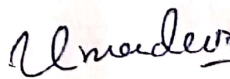

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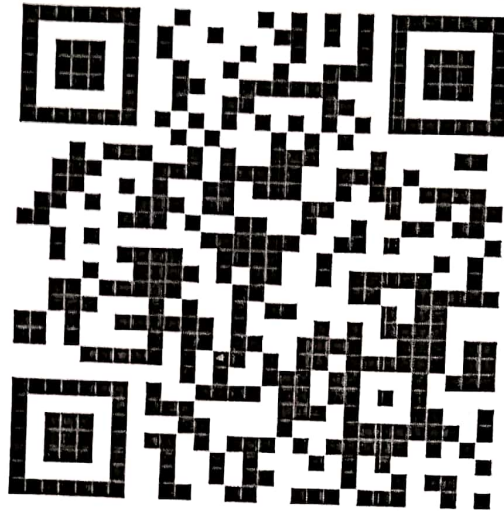
Feedback Analysis Report:

We collected feedback from all the students via Offline. We have designed a feedback form for this. Student's feedback on the event is presented below:

FEEDBACK	NO OF STUDENTS
Excellent	20
Good	13
Average	00
Total	33

FACULTY CO-ORDINATOR

HoD-IT