



# PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 10-06-2024

## 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 “**DISASTER RECOVERY AND BUSINESS CONTINUITY**” on 12-06-2024. The students who are interested should register through the following link:

Registration link for the session:

<https://forms.gle/u2urSxHNwrRXfUvp6>

**Mode:** Online

**Time:** 11:00 AM to 12:00 PM

FACULTY CO-ORDINATOR

HOD-IT



# PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 12-06-2024

Day : Tuesday

“CLOUD COMPUTING CLUB” of IT Department in association with Career Guidance cell organized a seminar on “DISASTER RECOVERY AND BUSINESS CONTINUITY”

**PRAGATI ENGINEERING COLLEGE**  
(AUTONOMOUS)  
INDUSTRY 4.0 CLUB

**CLOUD COMPUTING CLUB**

OF IT DEPARTMENT IN ASSOCIATION WITH CAREER GUIDANCE CELL  
ORGANIZES A WEBINAR ON  
“DISASTER RECOVERY AND BUSINESS CONTINUITY”

LINK : <https://forms.gle/u2urSxHNwrRXfUvp6>

**EVENT REGISTRATIONS ARE OPEN**

MODE : ONLINE  
DATE : 12-06-24  
Time : 11 AM-12 PM

**REGISTER NOW**

**FACULTY COORDINATOR :**  
Mr. SATYA MOHAN CHOWDARY G,  
Assistant Professor , Department of IT

**SPEAKERS :**  
P.CHARAN TEJA (III AI-ML)

**PRESIDENT OF THE CLUB :**  
K . SANDEEP KUMAR (III IT)  
PHNO: 9347316649

(For 3<sup>rd</sup> year Students)

Registration link for the session:-

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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
Muppidi naga chaitanya	22A31A1209	IT	III
Bathina Vijaya Sruhitha	22A31A42G4	CSE AIML	III
Y.B.V.N.S amrutha	22A31A4475	CSE DS	III
Shaik Fuzaila Farhatunnisa	22A31A1228	IT	III
Meka Yesasri mani	22A31A0503	CSE	III
Navaneeth preetham	22A31A0524	CSE	III
G.R.L. Deepika	22A31A1206	IT	III
Rakesh k	22A31A1215	IT	III
S. Yashwitha	22A31A1216	IT	III
Anjani Patnaik	22A31A4440	CSE DS	III
Ummanaboyina Triveni	22a31a04e9	ECE	III
Ummanaboyina Triveni	22A31A1223	IT	III
Ravi kumar	22A31A1259	IT	III
M.Ramasuresh	22a31a1226	IT	III
Yalla Aishwaryambica	22A31A1252	IT	III
S. Pallavi	22A31A1234	IT	III
Chikkala kedareswari kaivalya	22A31A4456	CSE DS	III
G. Lalitha Raja Sri	22A31A1254	IT	III
y. Rakesh	22A31A1231	IT	III
K. Vinodini	22a31a4446	CSE DS	III
GAGGARA NAGA SAI SANTHOSHI	22A31A1203	IT	III
Pssvsirisha	22a31a1222	IT	III
M. Swaroop	22A31A1208	IT	III
Sai Akshay	22A31A0393	ME	III
Veeravalli Manimala	22A31A0391	ME	III
Veeravalli Manimala	22A31A0333	ME	III
K. Shanmitha Devi	22a31a0369	ME	III
Malladi gangadri	22A31A0374	ME	III
ELISETTI UDAYA KIRAN	22a31a43e1	CSE AI	III
SREE BALA DAMISETTI	22A31A0361	ME	III
Bala Bavya Sri Ramiseti	22A31A43E5	CSE AI	III
Kadimi NagaPurnaLakshmi	22A31A1220	IT	III
M PAVITHRA	23A35A1206	IT	III
B. Lakshmi Narayana Gupta	22A31A0282	EEE	III
ODURI KODANDA N S PRAKASH	22A31A04G3	ECE	III
Renuka Chowdary	22a31a4363	CSE AI	III
Harsha Vardhan	22A31A1219	IT	III
Gangadri	22A31A4482	CSE DS	III
K.suresh	22A31A0367	ME	III
Kudupudi Rushi	22A31A4362	CSE AI	III
Asritha Dasari	22A31A4267	CSE AIML	III
V. Harika	22A31A4226	CSE AIML	III
Keratana Santhosh Kumar	22A31A4286	CSE AIML	III
K.G.V.V.S.Sameera	22A31A4347	CSE AI	III
MSDVVAKHIL	22A31A42A6	CSE AIML	III



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The session “DISASTER RECOVERY AND BUSINESS CONTINUITY” was taught by P.Charan Teja

Here are the pictures of our online meeting that we've conducted:-



SS





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DEPARTMENT OF INFORMATION TECHNOLOGY

Charan Teja Palleti (Presenting)

## 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 fallback processes.

**Hybrid Solutions:**

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

11:27 AM | guk-tfgb-gfb

Charan Teja Palleti, Sandeep Kumar, Ravikumar Gurrala, Ram suresh Mallipamu, Lakshmi Saladi, deepikagi, Surya Empire, Rama Sathwik Channa, 13 others, Sayed Younis

Charan Teja Palleti (Presenting)

## Backup and Replication

**Data Backup :**

- ✓ Regularly scheduled backups of data to cloud storage to ensure that there is always a recent copy available for recovery.

**Data Replication :**

- ✓ Continuous copying of data to another location (often a different geographical region) in real-time or near real-time to ensure data consistency and availability.

11:17 AM | guk-tfgb-gfb

Charan Teja Pall..., Ram suresh Mall..., Aishwaryambic..., Sandeep Kumar, Ravikumar Gurr..., 17 others, Sayed Younis

People: Mute all, Add people

Contributors: 24

- Sayed Younis (You) Meeting host
- Aishwaryambica Yalla
- Akash P
- Charan Teja Palleti
- Charan Teja Palleti Presentation
- dasari asritha
- Deepak Kadiyala
- deepikagi
- Jaya Sukumar Kommula
- Lakshmi Saladi



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### What is Disaster Recovery ?

Disaster Recovery (DR) in cloud computing refers to a set of strategies, practices, and tools designed to help organizations quickly restore IT operations and data access after a catastrophic event such as hardware failure, natural disasters, cyberattacks, or human error.

#### **Backup and Replication:**

##### **Data Backup :**

- ✓ Regularly scheduled backups of data to cloud storage to ensure that there is always a recent copy available for recovery.

##### **Data Replication :**

- ✓ Continuous copying of data to another location (often a different geographical region) in real-time or near real-time to ensure data consistency and availability.



#### **Failover and Failback Mechanisms**

##### **Failover :**

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

##### **Failback :**

- ✓ 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.



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### 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
Mallipamu Ramasuresh	23A35A1203	III	Excellent
Gurrala.Ravi kumar	22A31A0361	III	Excellent
SREE BALA DAMISETTI	22A31A4428	III	Excellent
Satya Sandeep Pande	22A31A0246	III	Good
M PAVITHRA	23A35A1202	III	Good
VITTANALA NITHIN KUMAR	22A31A1266	III	Excellent
G.R.L. Deepika	22A31A1209	III	Good
RAKESH KUSUMA	22A31A1251	III	Good
Deepak	22A31A1247	III	Good
Sv Ashish	22A31A1259	III	Excellent
J.naveen	22A31A42G4	III	Excellent
NULU SUBRAHMANYA VENKATA LAKSHMI	22A31A4475	III	Excellent
Vagu Sameera	22A31A1228	III	Excellent
Chikkala kedareshwari kaivalya	22A31A0503	III	Excellent
Yalla Aishwaryambica	22A31A0524	III	Excellent
GANAPATHIRAJU RAMA SRI DEVI	22A31A1206	III	Excellent
K.Vinodini	22A31A1215	III	Excellent
KUPPALA SATYA SRI	22A31A1216	III	Excellent
GIDUTHURI CHARAN CHANDU	22A31A4440	III	Excellent
Lakshmi samitha .pyla	22a31a04e9	III	Excellent
Samireddi Adilakshmi	22A31A1223	III	Average
Ashish	22A31A1259	III	Good
Ummanaboyina Triveni	22a31a1226	III	Good
M Samuel Prakash	22A31A1252	III	Good
Y.B.V.N.S amrutha	22A31A1234	III	Good
KARTHIK KUMAR PILLI	22A31A4456	III	Good
ODURI K N SURYA PRAKASH	22A31A1254	III	Excellent
D.VARSHITHA	22A31A1231	III	Excellent
MADHAVARAPU CHANDRA SEKHARA SRI SAI	22a31a4446	III	Average
Bantumilli Rahena	22A31A1203	III	Average
Dakshayani salapu	22a31a1222	III	Average
G.Lalitha Raja Sri	22A31A1208	III	Average
T.Bharath kumar	22A31A0393	III	Average





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Link: <https://forms.gle/ouGFNtd1UbXFtmVK8>

## Feedback Analysis Report:

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

FEEDBACK	NO OF STUDENTS
Excellent	16
Good	10
Average	06
<b>Total</b>	<b>32</b>

FACULTY CO-ORDINATOR

HOD-IT