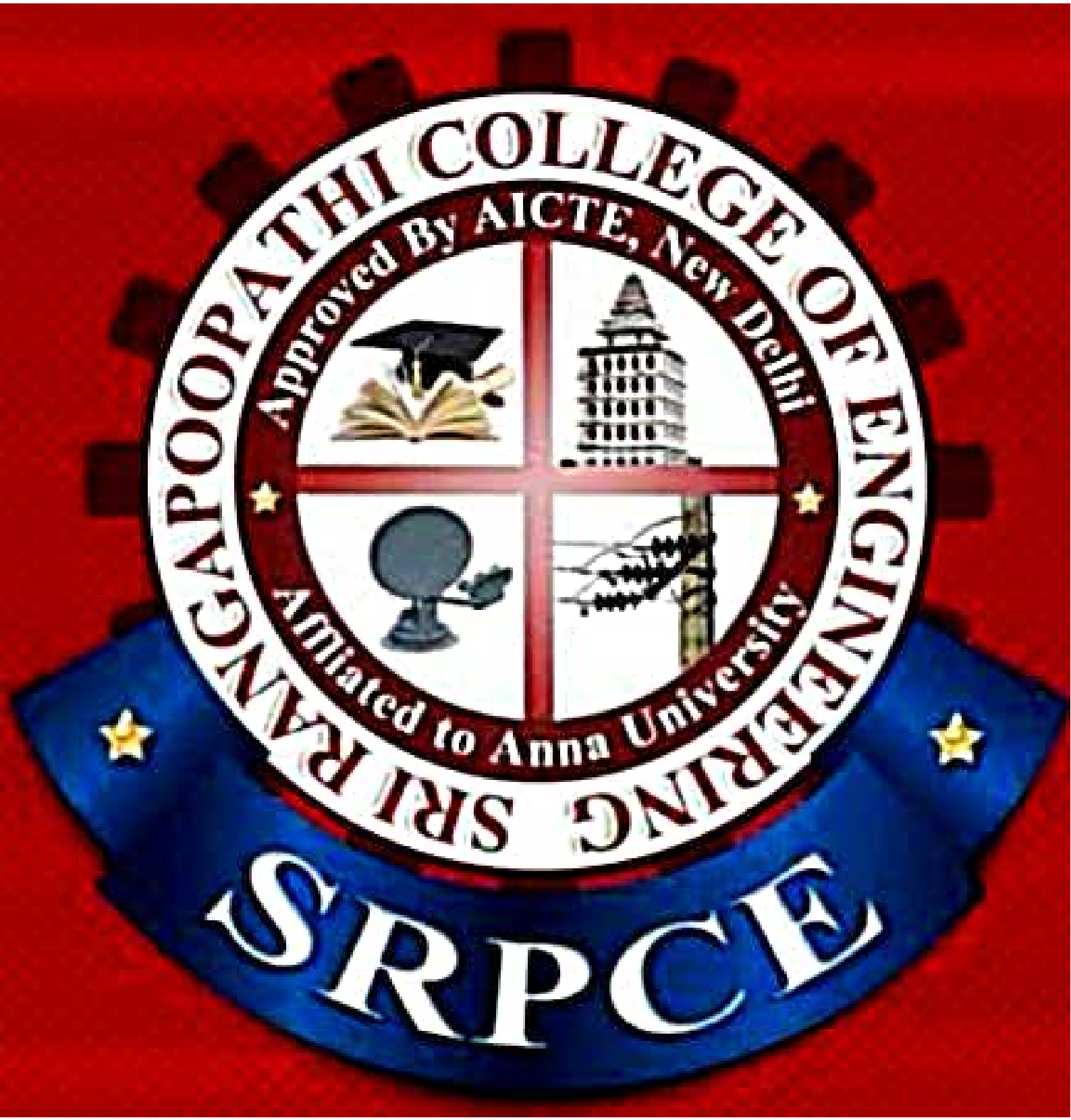
SRI RANGAPOOPATHI COLLEGE OF ENGINEERING
Approved By AICTE, New Delhi
Affiliated to Anna University
SRPCE

# Introduction to Disaster Recovery with IBM Cloud Virtual Servers:

Disaster recovery planning is a critical aspect of ensuring the resilience and continuity of an organization's IT infrastructure in the face of unforeseen events, such as natural disasters, hardware failures, or cyberattacks. IBM Cloud Virtual Servers offer a robust platform for implementing disaster recovery solutions that help safeguard your data and applications. In this abstract, we'll explore the concept of disaster recovery and highlight how IBM Cloud Virtual Servers can be leveraged to create a resilient infrastructure.

Abstract:

Disaster recovery is a strategic imperative for modern enterprises, as downtime can result in substantial financial losses and reputational damage. With the increasing reliance on cloud infrastructure, the need for a robust disaster recovery plan in the cloud has become paramount. IBM Cloud Virtual Servers provide a versatile and scalable environment to build disaster recovery solutions tailored to your organization's specific needs. This abstract will delve into the key considerations, best practices, and a sample program for implementing disaster recovery with IBM Cloud Virtual Servers.

```
import ibm_boto3
from ibm_botocore.exceptions import
NoCredentialsError

# Set up IBM Cloud Virtual Servers
API client
iam_api_key = 'your_api_key_here'
cos_endpoint =
'https://s3.us.cloud-object-storage
.appdomain.cloud'
cos_bucket_name =
'your_cos_bucket_name'
cloud_region = 'us-south'

cos_client = ibm_boto3.client('s3',
    ibm_api_key_id=iam_api_key,

ibm_service_instance_id=cos_service_i
nstance_id,

ibm_auth_endpoint='https://iam.cloud
.ibm.com/identity/token',

config=ibm_boto3.session.Config(signa
ture_version='oauth'),
    endpoint_url=cos_endpoint)

# Define disaster recovery process
def backup_data_to_cos(data,
object_key):
    try:
```

```
Object Storage credentials not
found.")

# Implement your disaster recovery
logic here
def main():
    # Your disaster recovery code
here
    # For example, backup critical
data to Cloud Object Storage

if __name__ == '__main__':
    main()
```

This sample program demonstrates a simple disaster recovery scenario where critical data is backed up to IBM Cloud Object Storage (COS) using IBM Cloud Virtual Servers. Implementing disaster recovery solutions with IBM Cloud Virtual Servers can be customized to meet the unique requirements of your organization, ensuring business continuity and data