PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 14-06-2024

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 "**VIRTUALISATION**" on 15-06-2024. The students who are interested should register through the following link:

Registration link for the session:
https://forms.gle/4NBtDpaGV8iYAxd66

Mode: Online
Time: 10:00 AM to 11:00 AM

FACULTY CO-ORDINATOR

HOD-IT 14/06/24.

PRAGATI ENGINEERING COLLEGE (A) I.T H.O.D SURAMPALEM

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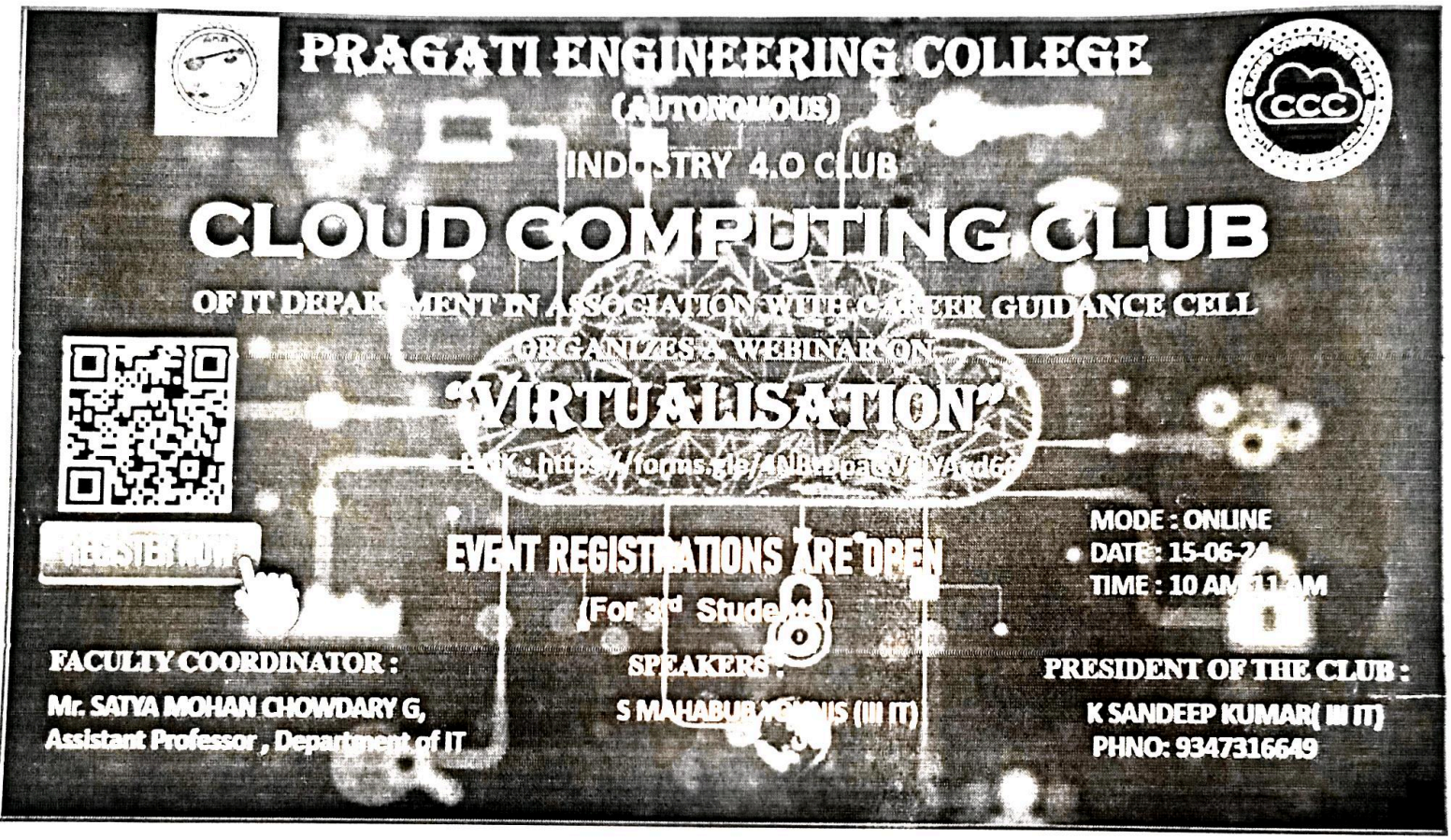
(AUTONOMOUS)

DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 15-06-2024
Day: Saturday

"**CLOUD COMPUTING CLUB**" of IT Department in association with Career Guidance cell organized a seminar on "**VIRTUALISATION**"



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

Name	Roll no	Branch	Year
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 Ramisetti	22A31A43E5	CSE AI	III
Kadimi NagaPurnaLakshmi	22A31A1220	IT	III
M PAVITHRA	23A35A1206	IT	III
B. Lakshmi Narayana Gupta	22A31A0282	EEE	III
ODURI KODANDA NAGA SURYA 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
Muppidi naga chaitanya	22A31A1209	ME	III
Bathina Vijaya Sruhitha	22A31A42G4	ECE	III
Y.B.V.N.S amrutha	22A31A4475	CSE AIML	III
Shaik Fuzaila Farhatunnisa	22A31A1228	CSE DS	III
Meka Yesasri mani	22A31A0503	EEE	III
Navaneeth preetham	22A31A0524	EEE	III
G.R.L. Deepika	22A31A1206	IT	III
Rakesh k	22A31A1215	CSE AI	III
S. Yashwitha	22A31A1216	IT	III
Anjani Patnaik	22A31A4440	CSE AI	III
Ummanaboyina Triveni	22a31a04e9	IT	III
Ummanaboyina Triveni	22A31A1223	IT	III
Ravi kumar	22A31A1259	IT	III
M.Ramasuresh	22a31a1226	ECE	III
Yalla Aishwaryambica	22A31A1252	CSE AI	III
S. Pallavi	22A31A1234	IT	III
Chikkala kedareswari kaivalya	22A31A4456	CSE DS	III
G. Lalitha Raja Sri	22A31A1254	ME	III
y. Rakesh	22A31A1231	CSE AI	III
K. Vinodini	22a31a4446	IT	III
G.v.s.s.pravallika	22A31A0508	CSE	II
Gunipe Surya Teja	22A31A0509	CSE	III

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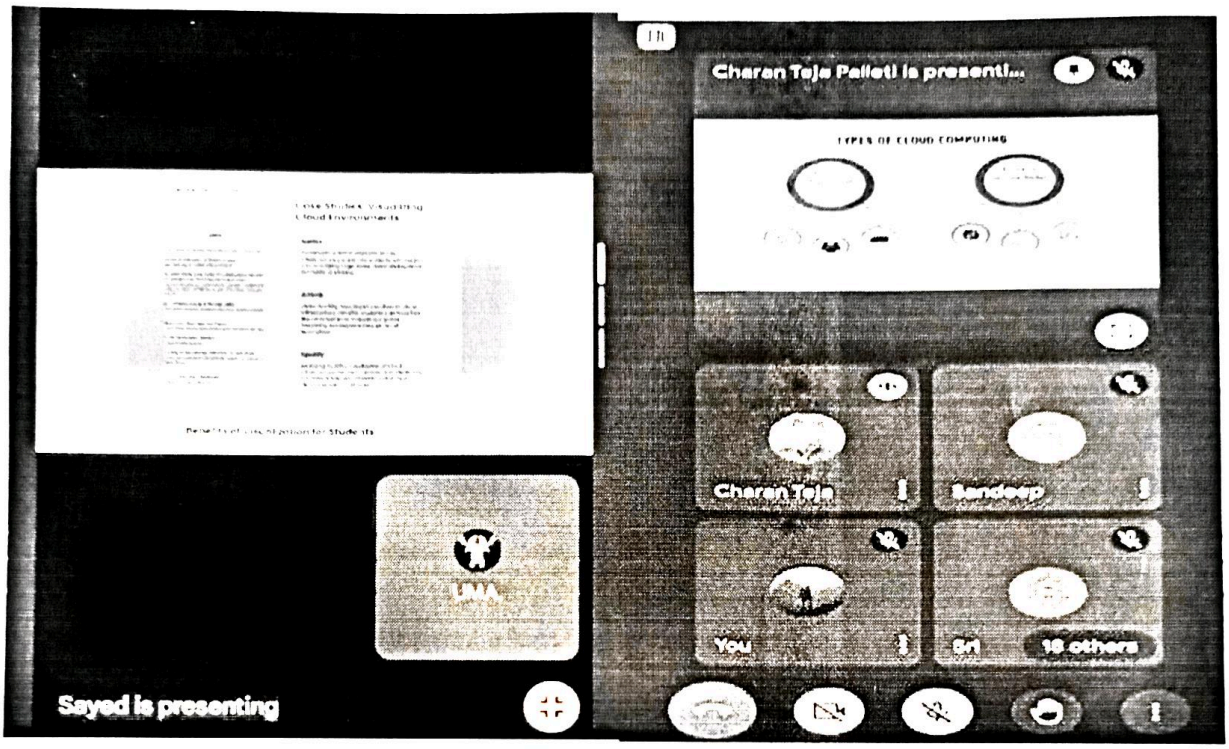
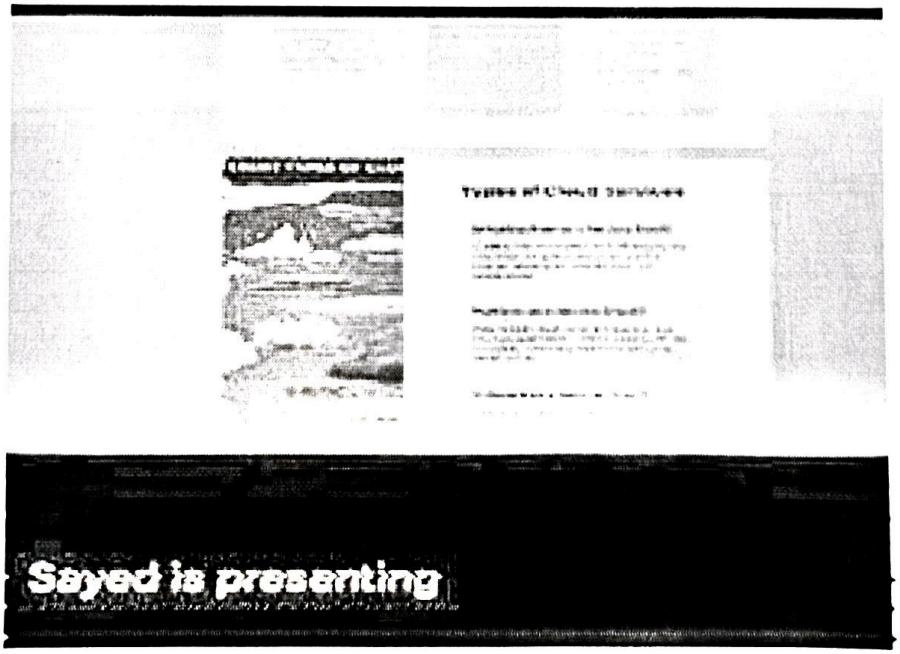
The session **"VIRTUALISATION"** was taught by S M YOUNIS.

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





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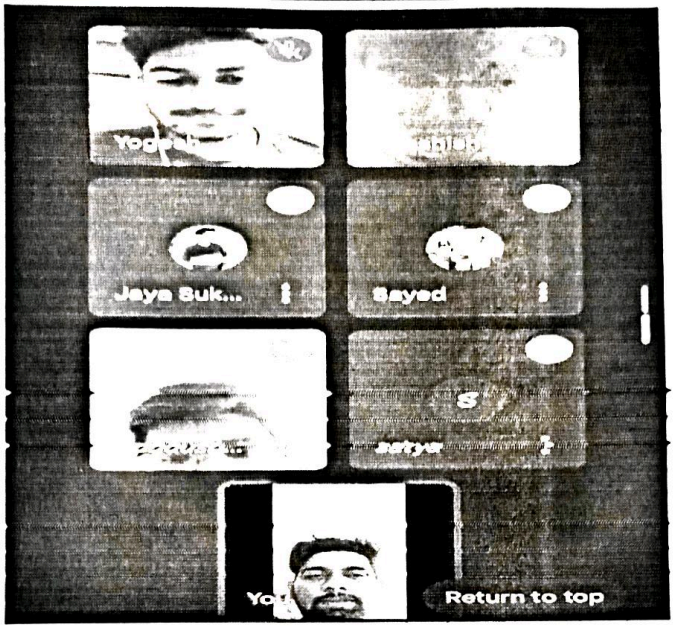


Virtual machines

Easily create and run online VMs on high-performance, reliable cloud infrastructure. Choose from preset or custom machine types for web servers, databases, AI, and more.

FEATURES:

Preset and custom configurations:

Deploy an application in minutes with prebuilt samples called Jump Start Solutions. Create a dynamic website, load-balanced VM, Java application, three-tier web app, or ecommerce web app.

Choose from predefined machine types, sizes, and configurations for any workload, from large enterprise applications, to modern workloads (like containers) or AI/ML projects that require GPUs and TPUs.

Industry-leading reliability:Compute Engine offers the best single instance compute availability SLA of any cloud provider: 99.95% availability for memory-optimized VMs and 99.9% for all other VM families.

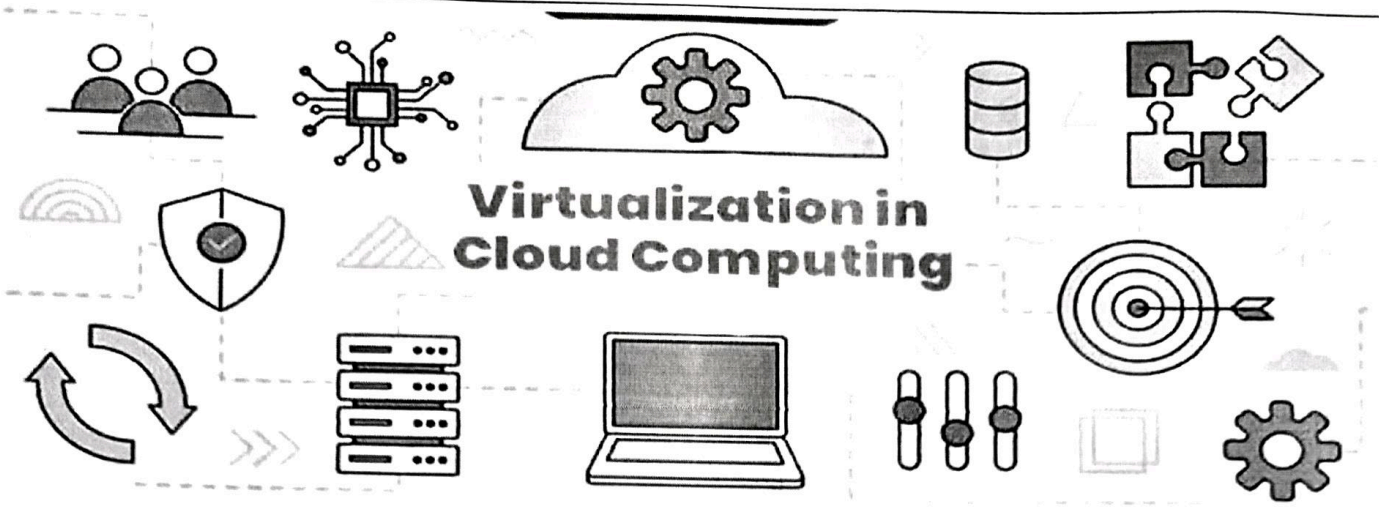
Automations and recommendations for resource efficiency:

All of our latest compute instances (C3, A3, H3) run on Titanium, a system of purpose-built microcontrollers and tiered scale-out offloads to improve your infrastructure performance, life cycle management, and security.

Data Virtualization

The foundation of data virtualization technology is the execution of distributed data management processes, mostly for queries, against numerous heterogeneous data sources, and the Federation of query results into virtual views. Applications, query/reporting tools, message-oriented middleware, or other parts of the data management infrastructure then consume these virtual views. Instead of performing data movement and physically storing integrated views in a destination data structure, data virtualization can be utilized to construct virtualized and integrated views of data in memory. To make querying logic simpler, it provides an abstraction layer over the actual physical implementation of data.

It is a method for combining data from various sources and different types into a comprehensive, logical representation without physically relocating the data. Simply put, users can theoretically access and examine data while it still exists in its original sources thanks to specialized middleware



Types of Server Virtualization in Computer Network

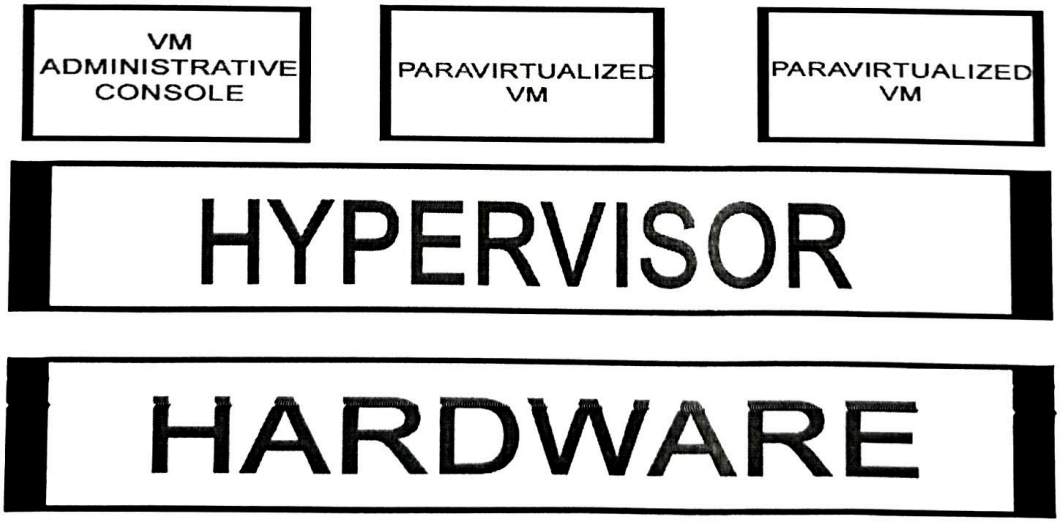
Hypervisor:

A Hypervisor or VMM(virtual machine monitor) is a layer that exists between the operating system and hardware. It provides the necessary services and features for the smooth running of multiple operating systems.

Para Virtualization:

It is based on Hypervisor. Much of the emulation and trapping overhead in software implemented virtualization is handled in this model. The guest operating system is modified and recompiled before installation into the virtual machine.

Due to the modification in the Guest operating system, performance is enhanced as the modified guest operating system communicates directly with the hypervisor and emulation overhead is removed.



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

Link : https://forms.gle/JRFfhyEygk2Sinrj58

Name	Roll no	Year	Feedback
Gangadri	22A31A4482	III	Excellent
K.suresh	22A31A0367	III	Excellent
Kudupudi Rushi	22A31A4362	III	Excellent
Asritha Dasari	22A31A4267	III	Good
V. Harika	22A31A4226	III	Average
Keratana Santhosh Kumar	22A31A4286	III	Excellent
K.G.V.V.S.Sameera	22A31A4347	III	Average
MSDVVAKHIL	22A31A42A6	III	Good
Muppidi naga chaitanya	22A31A1209	III	Good
Bathina Vijaya Sruhitha	22A31A42G4	III	Excellent
Y.B.V.N.S amrutha	22A31A4475	III	Excellent
Shaik Fuzaila Farhatunnisa	22A31A1228	III	Good
Meka Yesasri mani	22A31A0503	III	Good
Navaneeth preetham	22A31A0524	III	Average
G.R.L. Deepika	22A31A1206	III	Excellent
Rakesh k	22A31A1215	III	Good
S. Yashwitha	22A31A1216	III	Good
Anjani Patnaik	22A31A4440	III	Excellent
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G. Lalitha Raja Sri	22A31A1254	III	Good
y. Rakesh	22A31A1231	III	Good
K. Vinodini	22a31a4446	III	Good
G.v.s.s.pravallika	22A31A0508	III	Average
Gunipe Surya Teja	22A31A0509	III	Good

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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	08
Good	14
Average	04
Total	**26**

FACULTY CO-ORDINATOR

HOD-IT

PRAGATI ENGINEERING COLLEGE (A) IT H.O.D SURAMPALEM