PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 09-03-2024

CIRCULAR

It is hereby informed to all the Students of II& III B.Tech. that "CLOUD COMPUTING" club of IT

Department in association with Career Guidance cell organizing a seminar on "**CLOUD**

APPLICATIONS" on 13-03-2024. The students who are interested should register through the

following link:

Registration link for the session:
https://forms.gle/PZsMUX463DaANzWPA

Mode: Offline
Time: 11:00 AM to 12:00 PM
Venue: S-25

FACULTY CO-ORDINATOR

Umadevi 9/3/24.

HoD IT

PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 13-03-2024
Day: Wednesday
Venue: S-25

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

Registration link for the session:-
https://forms.gle/PZsMUX463DaANzWPA

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

Name	Roll no	Branch	Year
G.R.L.Deepika	22A31A1209	IT	II
Vineetha Avasarala	22A31A4401	CSE DS	II
K.Vinodini	22A31A1215	IT	II
ADDANKI SATYA NIHARIKA	22A31A0202	EEE	II
P Amrutha ganga naga valli	22A31A0219	EEE	II
BALABHADRUNI L V H S SURYA GOPAL	22A31A4434	CSE DS	II
RAKESH DONDAPATI	22A31A4436	CSE DS	II
Srividya	22a31a0221	EEE	II
Yalla Aishwaryambica	22A31A0524	CSE	II
Satya Krishna Kondepudi	7.98E+09	EEE	II
T Ramya sri	22a31a0222	EEE	II
Radheswar	22A31A04I1	ECE	II
Mummareddy Sri harshitha Siva kalyani	22A31A04E4	ECE	II
Kotteda Manideep	22A31A04H2	ECE	II
M.Sri Bhanu	22A31A04E2	CIVIL	II
P. Nanda Sri Gopal	22A31A04I0	ECE	II
Saniya Anjum	22A31A04F0	ECE	II
M.siva teja	22A31A04H3	ECE	II
Peddireddi Govardhan datta	22A31A04W2	ECE	II
Padma Raju Anisetti	22A31A0226	EEE	II
G.Lalitha Raja Sri	22A31A1208	IT	II
RAMNATH BUDI	22A31A0431	ECE	II
J.naveen	22a31a42g4	CSE AIML	II
NEELAM SREE AMRUTHA	22A31A4418	CSE DS	II
S S V V S S Roshini	22A31A0270	EEE	II
R Mohini pushpa	22A31A0267	EEE	II
Medisetti swetha	22A31A4279	CSE AIML	II
B Kali surya	22A31A5296	CSE AIML	II
V.kranthi kumar	21A31A0257	EEE	III
K. Varsha sri	22A31A0259	EEE	III
B.Vara Thulasi	22A31A0254	EEE	II
Nulu Bindu Madhava Srikar	22A35A1206	IT	III
G.Mounika Asraya	22A31A0475	ECE	II
K jnaneswar Kumar	22a31a42h1	CSE AIML	II
Cheekatla Mahesh	22A31A0308	ME	II
Chikkala kedareswari kaivalya	22A31A0503	CSE	II
Sivakoti Lakshmi Satya Narayana	22A31A0462	ECE	II
KOVVURI VEERA VENKATASATYANARAYANA REDDY	21A31A05B4	CSE	III
Raja yejju	22A31A0388	ME	II
K.G.V.V.S.Sameera	22a31a0579	CSE	II

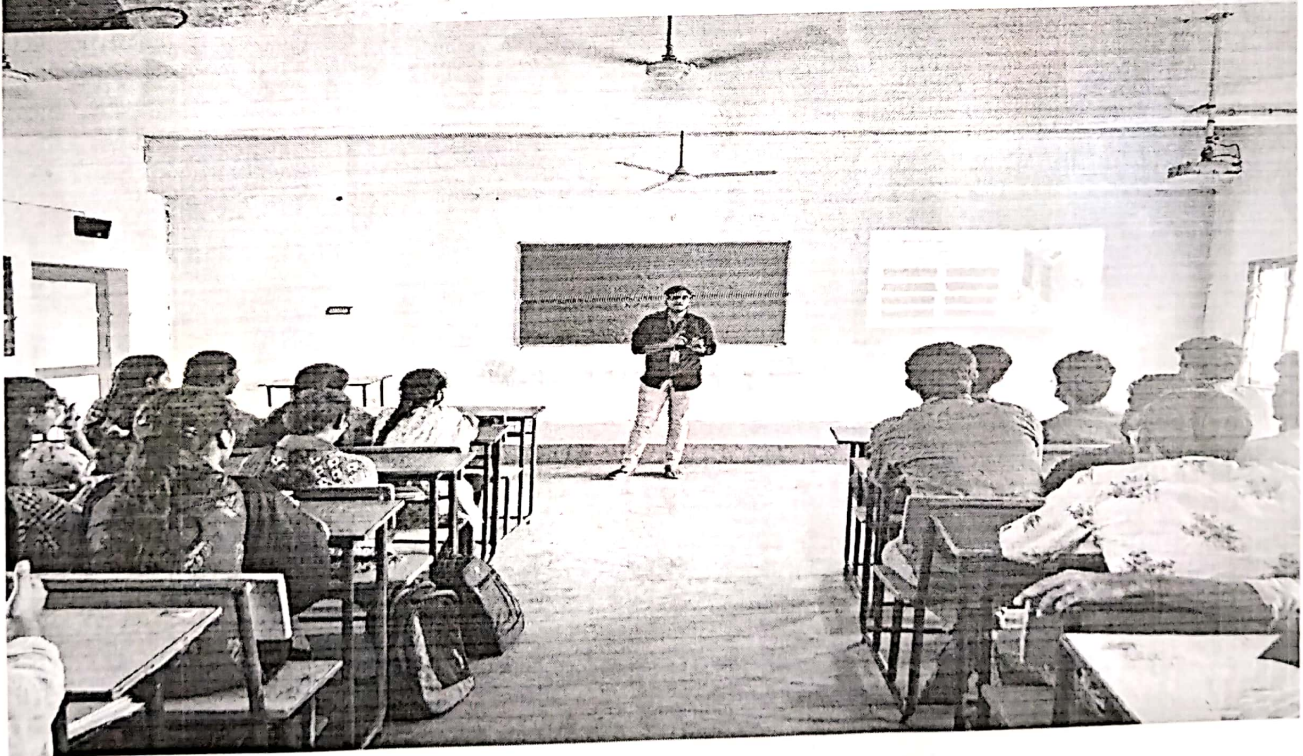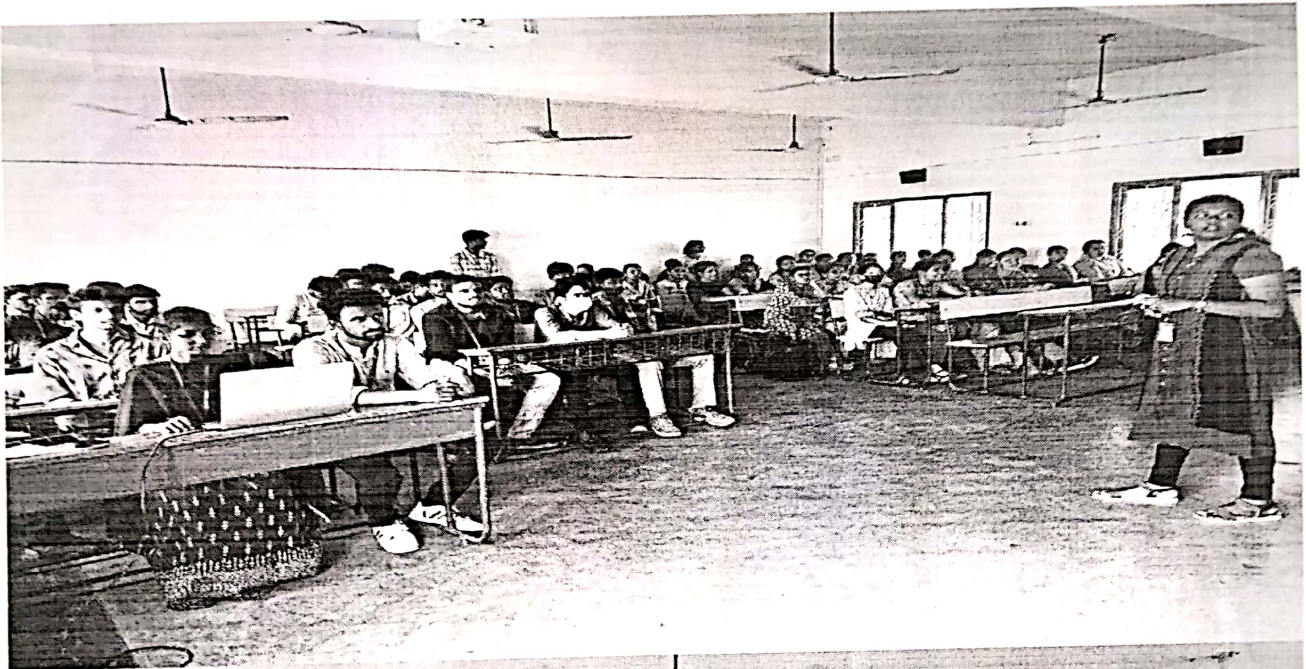|			
G.v.s.s.pravallika	22A31A0508	CSE	II
Gunipe Surya Teja	22A31A0509	CSE	III
Mohammad Ata Ansari	22A31A0374	ME	II
Samireddi Adilakshmi	22A31A1223	IT	II
K.Ashok	22A31A0233	EEE	II
VULLIVENKATA GANGADHAR PRAVEEN	22A31A0566	CSE	II
KOLLU RAJESH	23a35a0505	CSE	II
ELISETTI UDAYA KIRAN	22A31A0230	EEE	II
P.Lakshmi Prasanna	22A31A05F4	CSE	II
Karthik Aduri	23A35A0223	EEE	II
SATHI CHAITANYA SAI DURGA	22A31A05F7	CSE	II
T. Sai Madhu Samyuktha	22A31A1225	IT	II
Kurupudi Niharika	22A31A0262	EEE	II
S Manjusha	2231A05F8	CSE	II
NIKHIL VIJAY KUMAR KUDIPUDI	22a31a0546	CSE	II
Kk	22a31a42h0	CSE AIML	II
Namala Sireesha	22A31A05F1	CSE	II
Leela Madhavi Gubbala	23A35A0501	CSE	II
KANCHI DHANUSHA	22A31A0510	CSE	II
D.Haasini	22A31A04J8	ECE	II
D. R. Nikshitha	22A31A0504	CSE	II
Asritha Dasari	22A31A0506	CSE	II
Shaik Fuzaila Farhatunnisa	22A31A0520	CSE	II
Ketha Vijayalakshmi	21A31A0475	ECE	III
GIDUTHURI CHARAN CHANDU	22A31A4440	CSE DS	II

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The session **"CLOUD APPLICATIONS"** was taught by A Chaitnaya and G M S Vyshnavi.

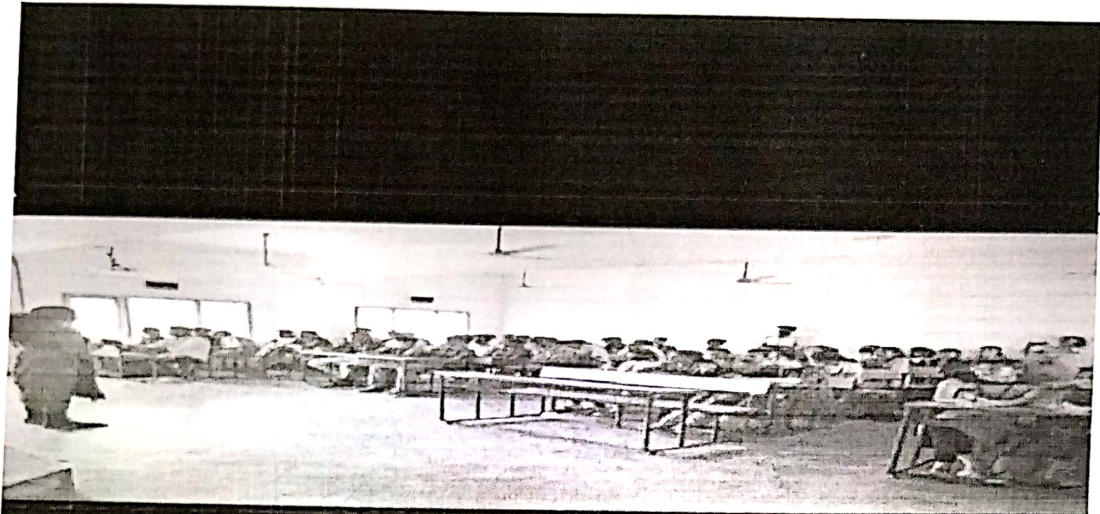Here are the pictures of our offline meeting that we've conducted:-

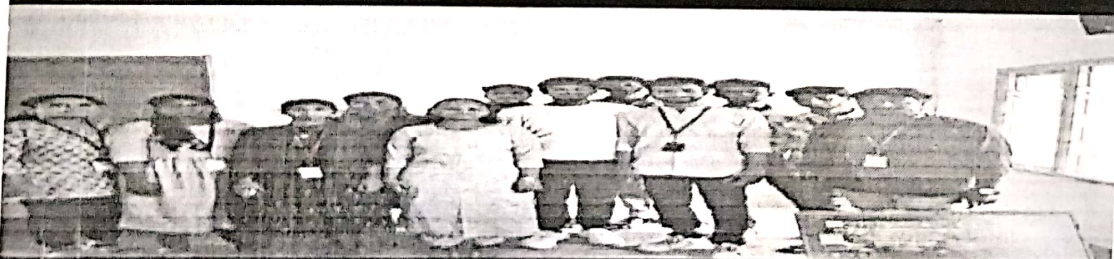# PRAGATI ENGINEERING COLLEGE
(AUTONOMOUS)
DEPARTMENT OF INFORMATION TECHNOLOGY

1-378, ADB Road,
Surampalem Near Kakinada,
Surampalem, Andhra
13 Mar 2024 11:17 AM

clear sky
32.0 °C

Google

1-378, ADB Road,
Surampalem Near Kakinada,
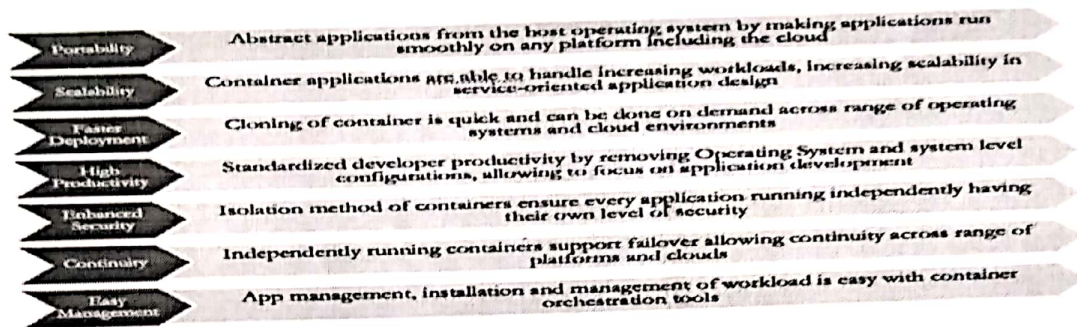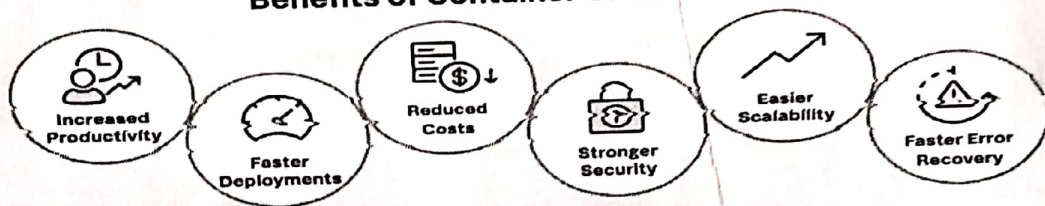Surampalem, Andhra
13 Mar 2024 11:49 AM

clear sky
33.0 °C

Google

Benefits of Containerisation:

Portability	Abstract applications from the host operating system by making applications run smoothly on any platform including the cloud
Scalability	Container applications are able to handle increasing workloads, increasing scalability in service-oriented application design
Faster Deployment	Cloning of container is quick and can be done on demand across range of operating systems and cloud environments
High Productivity	Standardized developer productivity by removing Operating System and system level configurations, allowing to focus on application development
Enhanced Security	Isolation method of containers ensure every application running independently having their own level of security
Continuity	Independently running containers support failover allowing continuity across range of platforms and clouds
Easy Management	App management, installation and management of workload is easy with container orchestration tools

Benefits of Container Orchestration

- Increased Productivity
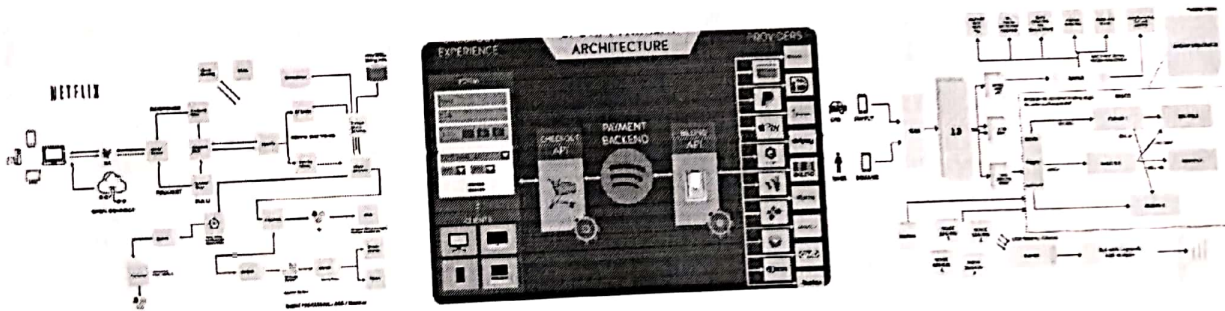- Faster Deployments
- Reduced Costs
- Stronger Security
- Easier Scalability
- Faster Error Recovery

Security considerations for cloud native applications:

- Cloud
- Cluster
- Container
- Code

Case studies of successful cloud native applications:

Netflix Streaming Platform:
Netflix successfully migrated to a cloud-native infrastructure, enabling scalability and seamless user experience

Spotify Microservices Architecture:
Spotify's microservices approach allows rapid feature deployment and personalized user experiences at scale.

Uber's Cloud-Native Technology:
Uber leverages cloud-native technologies for dynamic pricing, real-time tracking, and efficient dispatching
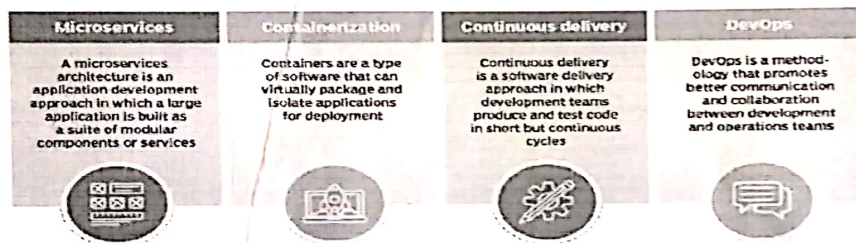
Introduction to Cloud Native Applications :

- Cloud native is the software approach of building, deploying, and managing modern applications in cloud computing environments. Modern companies want to build highly scalable, flexible, and resilient applications that they can update quickly to meet customer demands
- Cloud-native applications are software programs that consist of multiple small, interdependent services called micro services.
- By using the cloud-native approach, software developers break the functionalities into smaller micro services . This makes cloud-native applications more agile as these micro services work independently and take minimal computing resources to run.

Cloud native applications:

Four key principles of cloud-native development

Microservices	Containerization	Continuous delivery	DevOps
A microservices architecture is an application development approach in which a large application is built as a suite of modular components or services	Containers are a type of software that can virtually package and isolate applications for deployment	Continuous delivery is a software delivery approach in which development teams produce and test code in short but continuous cycles	DevOps is a methodology that promotes better communication and collaboration between development and operations teams

Containerization:

Containerization is a technique in software development that allows applications to run reliably and consistently across different computing environments

- **Containerization Technology**
- **Portability and Consistency**
- **Docker file**
- **Isolation and Security**
- **Orchestration Tools**
- **DevOps Practices**
- **Micro Services Architecture**
- **Cloud-Native Development**

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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/JRFJ9Hs5P2Sinrj58

Name	Roll no	Year	Feedback
Roopesh Jonnakuti	22A31A42G3	II	Excellent
Sai Mallik Bathula	22A31A04G1	II	Excellent
M.siva Teja	22A31A04H3	II	Excellent
Mummareddy Sri harshitha Siva kalyani	22A31A04E4	II	Good
Cirikkala kedareswari kaivalya	22A31A0503	II	Average
GIDUTHURI CHARAN CHANDU	22A31A4440	II	Excellent
Mahalakshmi kadali	22A31A0210	II	Average
Mannam Alekhya Narayana	22A31A0514	II	Good
RAKESH KUSUMA	22A31A1251	II	Good
Tanuku lakshman kumar	22A31A0418	II	Excellent
Reethuka	22A31A1220	II	Excellent
N. Vasavi	22A31A1219	II	Good
T. Sai Madhu Samyuktha	22A31A1225	II	Good
Asritha Dasari	22A31A0506	II	Average
PADALA LEELA VENKATA ABHIRAM	22A31A0244	II	Excellent
G.Ravi kumar	22A31A0361	II	Good
Sai Varshitha Kuppili	22A31A0518	II	Good
T.Sandeep	22a31a0253	II	Excellent
Renuka Chowdary	22A31A1218	II	Good
B koushika	22a31a208	II	Good
Gubbala Jaya Kumar	22A35A1202	III	Good
Samireddi Adilakshmi	22A31A1223	II	Good
Mondi Durga Veera Venkata Manikanta	22A35A1205	III	Good
K siddhardha	22A31A0367	II	Good
P.Satya Sandeep	22a31a0246	II	Average
A.ramalakshmi	22A31A04D3	II	Good
K ASHISH VARDHAN	22A31A0369	II	Excellent
Garimella Annapurna Sree	21A31A1209	III	Good
S.Raju	22A31A0387	II	Good

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D. Thirumala devi	22A31A1205	II	Good
M.Rambabu	22A31A04H4	II	Excellent
M Sri Bhanu	22A31A04E2	II	Good
Anjani	22A31A0201	II	Good
Kotteda Manideep	22A31A04H2	II	Excellent
BALABHADRUNI L V H S SURYA GOPAL	22A31A4434	II	Excellent
Shaik FuzailaFarhatunnisa	22A31A0520	II	Good
P Amrutha ganga naga	2a31a0219	II	Good
Mohammad Ata Ansari	22a31a0374	II	Excellent
Narasimha	22A31A42F4	II	Excellent
Pepakayala Bhavani Sri Alekhya	22A31A0517	II	Good
M Krishna Chaitanya	22A31A0289	II	Good
VINJAMURI V S KAMESWARA SAI RAMA SANJEEV	23A35A0216	II	Good
P.Nanda Sri Gopal	22A31A04I0	II	Good
SETTI DEVI	21A31A1221	III	Good
Keerthi Teja sri	22A31A0512	II	Good
D.R.Nikshitha	22A31A0504	II	Good
Y. Nagamani	22A31A1232	II	Good
Yashwitha	22A31A1224	II	Excellent
Srividya	22a31a0221	II	Good
Muppidi naga Chaitanya	22A31A04H5	II	Good
Rakesh Dondapati	22A31A4436	II	Good
Charan Teja Palleti	22A31A42B9	II	Excellent
K.G.V.V.S.Sameera	22A31A0579	II	Good

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	32
Average	05
Total	**53**

FACULTY CO-ORDINATOR

HoD-IT   13/3/24.