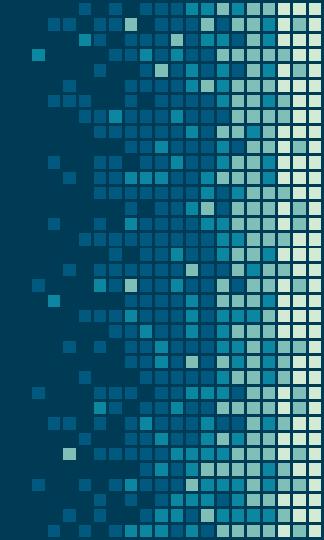
Progress Updates of University of Moratuwa



#### LINE-UP

#### **UoM Divisions and Staff**

15 Permenant employers and 2 contract employers. With 4 main operational sub divisions

#### **NoC Services**

Self hosted It services to education and administrative for Staff and Students.

#### **Internet and Cloud Services**

Interconnecting the departments and divisions. Providing cloud-based services

#### **Network Monitoring**

Includes monitoring, management, and maintenance of an organization's IT infrastructure.

#### **Challenges and opportunities**

Evolving threats and system complexity but offers opportunities for enhanced efficiency and cybersecurity innovation.



## 



Dr. Sunimal Rathnayake Director



Nadeithh&Radavæera

uctbye giinisiobegibeerTspirtieg Biv

Analyst



Center IT Services

Pasan Ravinatha

Assistation Manager MIS Division



**BaradenHetdiahazh**chi

Bysgeansnagioneer Systems

**Analyst** 



Sanjeewa Peiris

Assistant Network Manager



Walithda Ra Khuna abharatie

WebMasteultant



Ranchada ike Wafie yaka yak

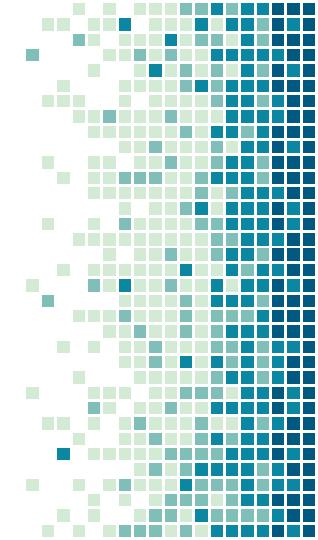
Management Assistant



Saman Kumara

Lab Attendant

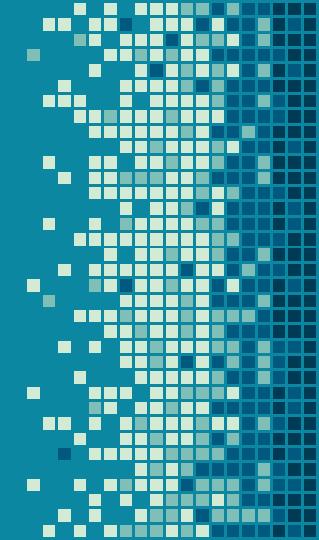
# NoC SERVICES



#### Email.



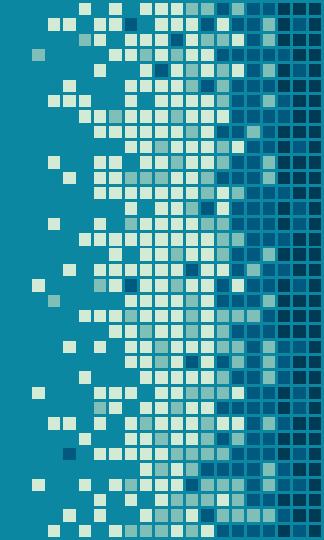
Both server and client services hosted on prem with active spam filtering.







On prem DNS Services with DNS Sec. Used as a recursive DNS and have hosted multiple zones.

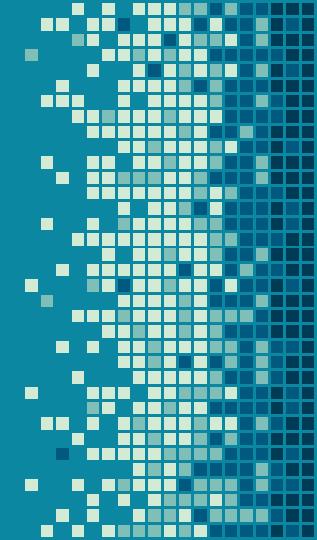




Single LMS for all faculties with high availability. Provide multiple interactive learning contents.

Secure Exams support
Paid and Custom Plugins

Email. DNS. LMS.



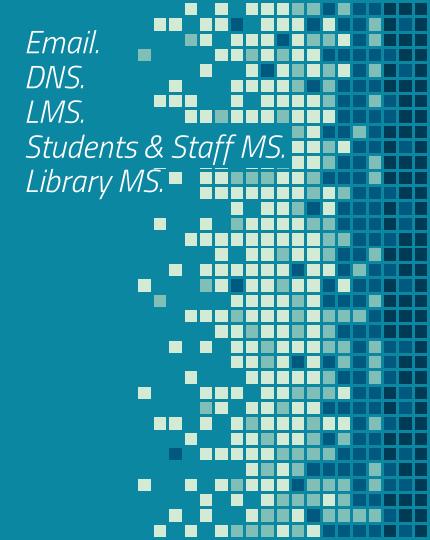
Students and Staff Management System.

Inhouse developed system which connected All administrative and academic services.

Email. DNS. LMS. Students & Sta

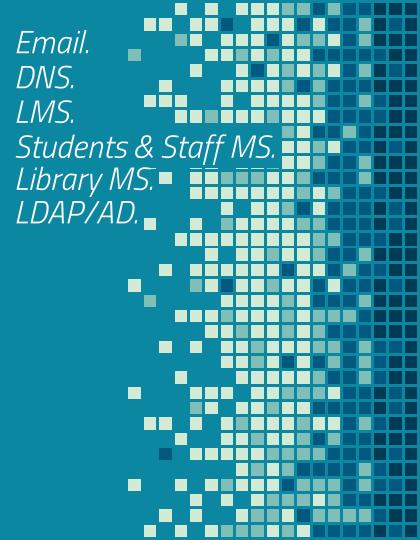
# Library Management Systems.

Inhouse hosted library management system including a digital repository system, and a portfolio management system.



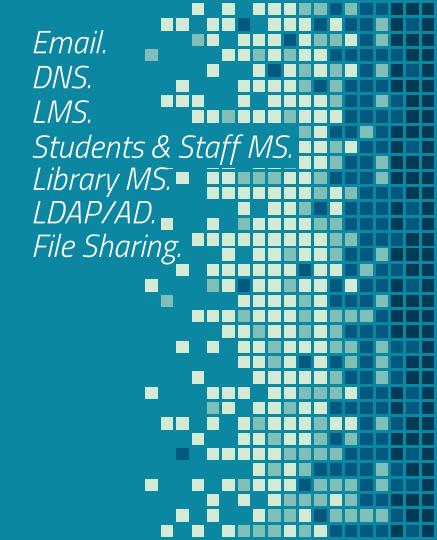


LDAP based user authentication and Active Directory based device authentication.





Inhouse Web based Document Management system.



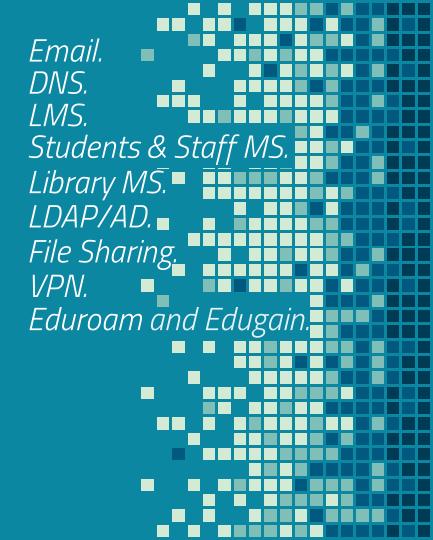
#### 66 VPN.

VPN services provide secure, encrypted connections over the internet, enabling users to access University networks and protect their online privacy.

Email. DNS. LMS. Students & Staff Library MS. LDAP/AD. File Sharing. VPN.

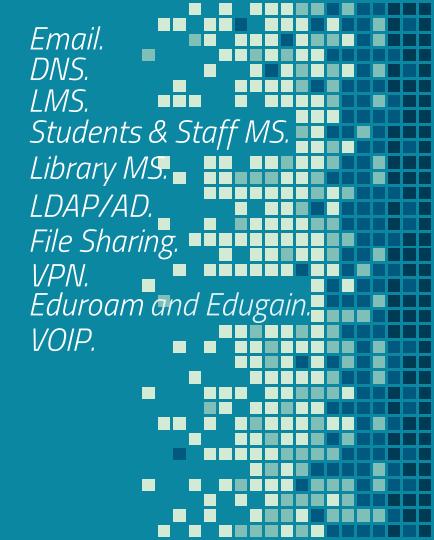
## Eduroam and Edugain.

Provide Identity services via LEARN federation.



#### VOIP.

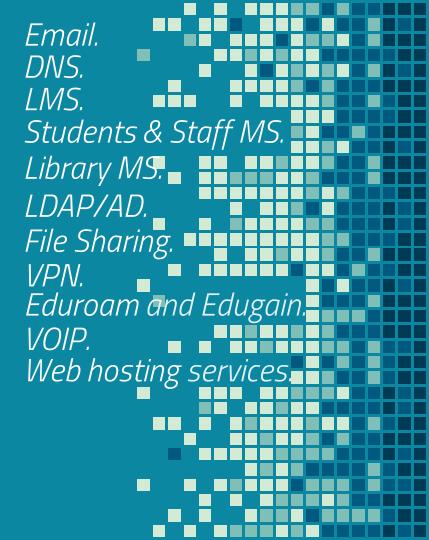
Hardware and software-based telephony system.



### Web hosting services.

Providing hosting services to the main website as well as academics portfolios.

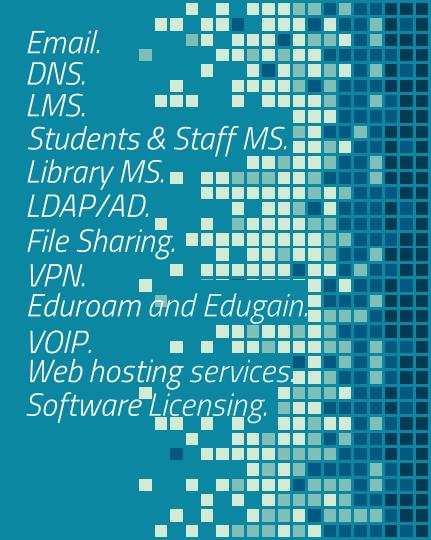
150+ VPS for Staff and Students Projects



## Software Licensing.

Microsoft, ArcGIS, Autodesk, MATLAB, etc.

Antivirus Solution.



### Help Desk.

Centralized support service resolving user issues, providing technical assistance, and ensuring smooth operation of IT and non-IT services.

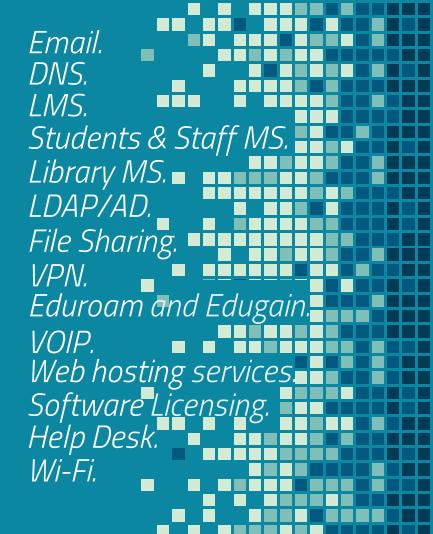
Email. DNS. LMS. Students & Staff Library MS. File Sharing. Eduroam and Eduga Web hosting servi Software Licensi

#### ■ Wi-Fi.

University wide enterprise grade wireless service.

200+ APs.

85% coved including Hostels



## Video Conferencing.

Zoom

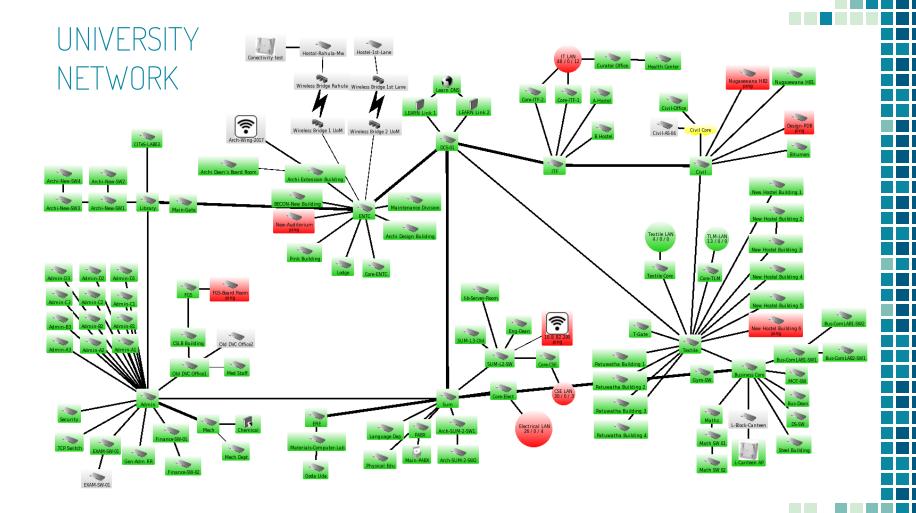
Teams

BigBlueButton.

Email. DNS. LMS. Students & Staff Library MS. File Sharing. Eduroam and Edugai Web hosting servi

#### INTERNET AND CLOUD SERVICES

- Two links from LEARN
  - 1.4 Gbps Main link
  - 300 Mbps Backup link
- Interconnecting Five faculties, Administrative divisions and Centers up to 40 Gbps Backbone.
- Microsoft and Google.





## NETWORK MONITORING

Monitoring, Management, and Maintenance of an organization's IT infrastructure.

#### MONITORING



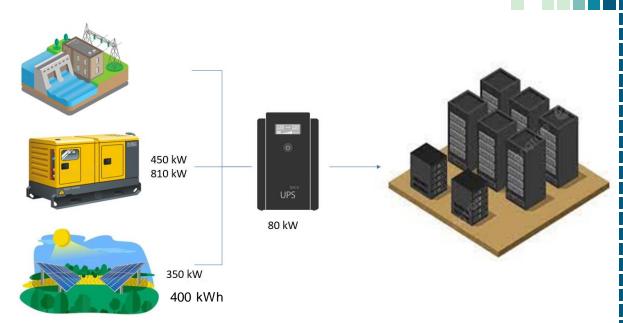
Performance Monitoring **Fault Monitoring Security Monitoring** Configuration Management Resource Utilization Traffic Analysis Alerting and Notification **User Activity Monitoring** 





### MAINTENANCE

- Hardware Maintenance
- Power Management
   Three power sources
   Solar, Generator and
   National Grid.
- Security Updates
- User Training



Challenges and Opportunities.

**Budget allocation** 

Recruitment restrictions

Spam and phishing

Device failure

Industry support for R&D

Training & awareness programmes



# THANKS!

Team – CITeS
University of Moratuwa

