

# INSTITUTE COMPUTER CENTRE

<https://iitr.ac.in/Centres/Institute%20Computer%20Centre/home.html>



# Institute Computer Centre (ICC): History



Roorkee University  
Computer Centre  
(1978)



Information  
Superhighway  
Centre  
(1996)



# Team ICC

The details are available at: [https://iitr.ac.in/Centres/Institute%20Computer%20Centre/FacultyAcademic\\_Staff.html](https://iitr.ac.in/Centres/Institute%20Computer%20Centre/FacultyAcademic_Staff.html)



**Prof. Sateesh K. Peddoju**  
Head, ICC



**Dr. N. K. Gupta**  
System Programmer



**Mr. Mukesh Kumar**  
System Programmer



**Dr. Sanjeev Shukla**  
Sr. Scientific Officer



**Mr. Kausik Chattopadhyay**  
Technical Officer III



**Mr. Sandeep Sharma**  
Technical Officer I (on Deputation)



**Dr. Usha Banerjee**  
Sr. Sc. Officer (On Contract)

ICC is having a dedicated team to support campus community. The team is consisting of System Programmers, Scientific Officers, Technical Officers, Technical staff members, Resident engineers, etc.



# Our Services to Campus Community

Computing & Cloud  
Resources

Scientific & Engineering  
Software

Email Services

Internet and Intranet Services

Website Development &  
Support

Communications

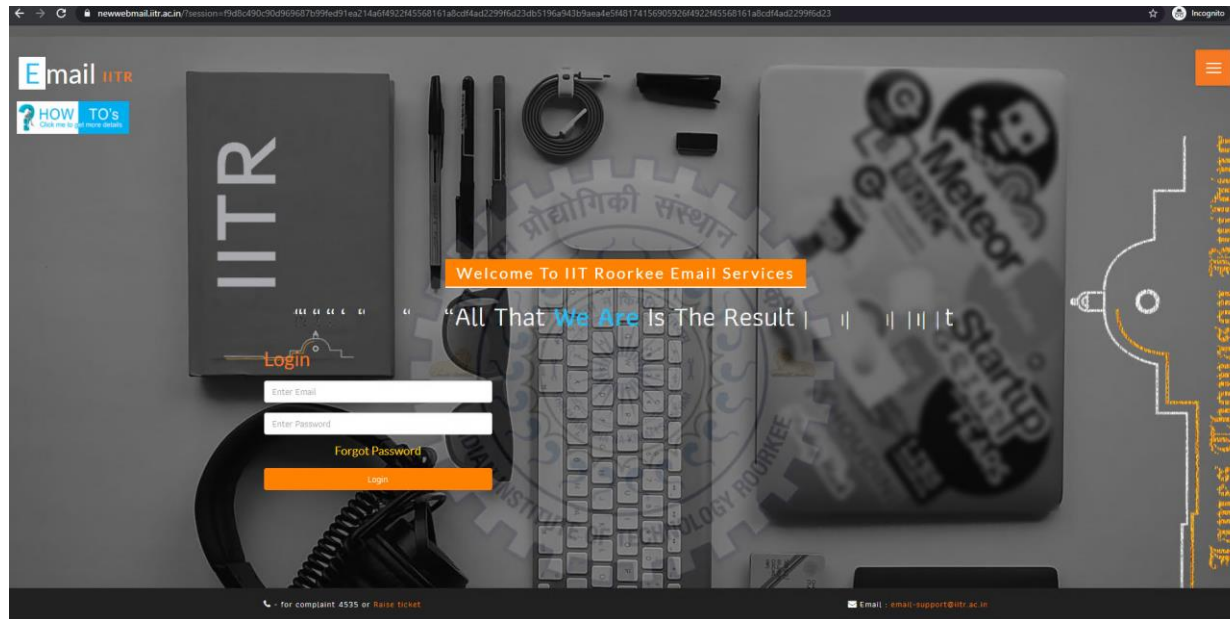
Online Teaching and  
Examinations Platforms

Video Conferencing Services

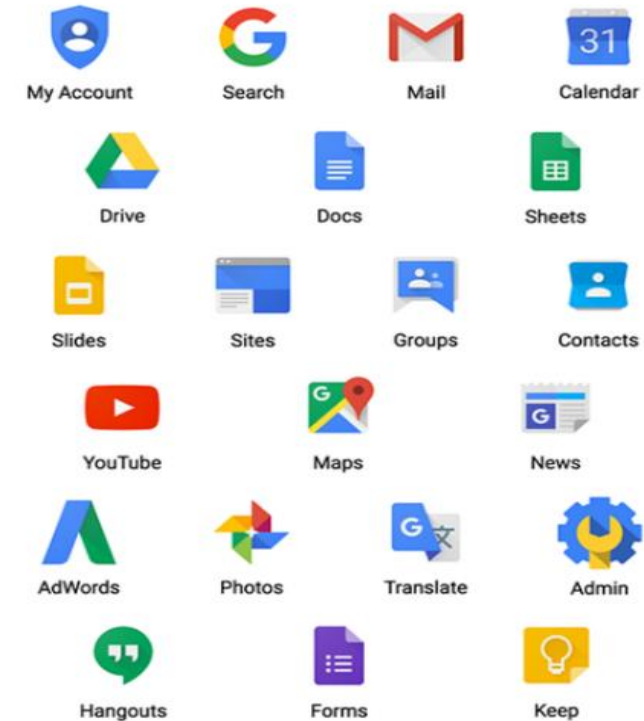
## Services by ICC: Email Service



# Services by ICC: Email services



G Suite



For Staff

For Students

Contact: [email-support@iitr.ac.in](mailto:email-support@iitr.ac.in)

## Services by ICC: Software Resources



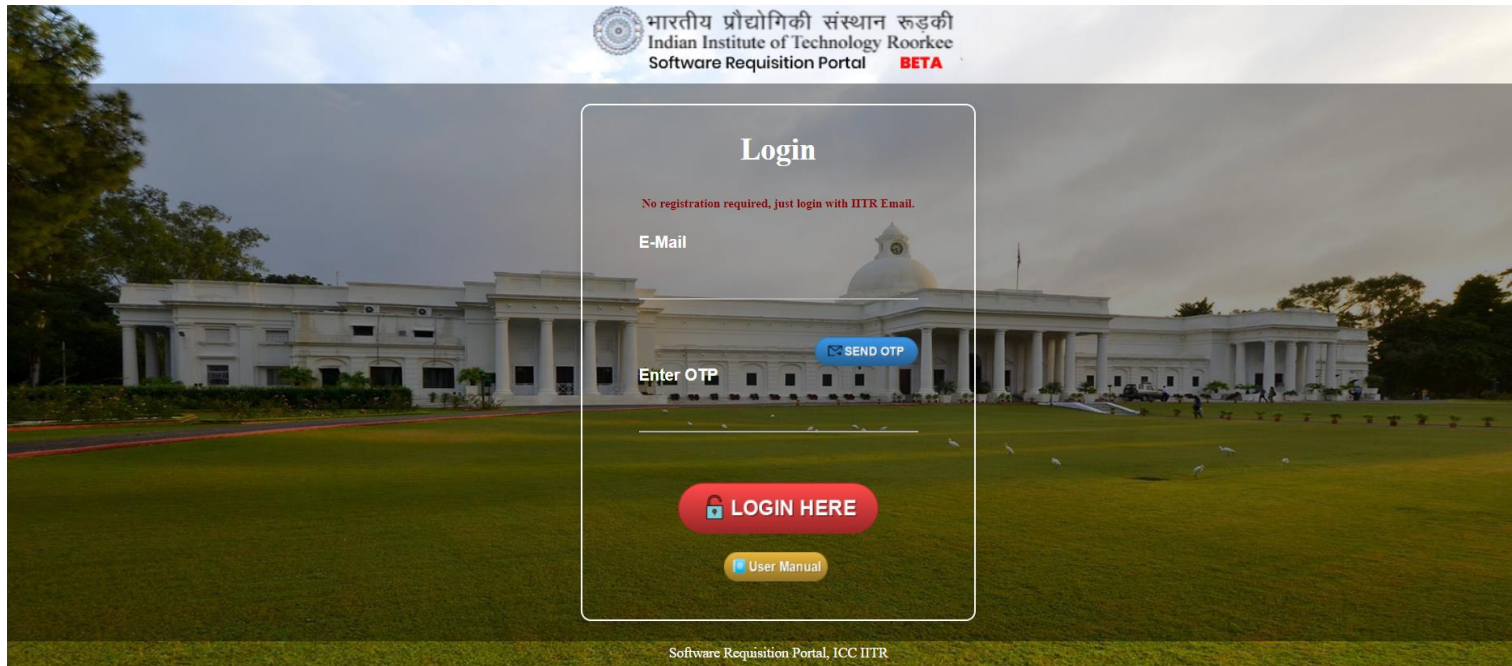
# Services by ICC: Software Resources

Portal: <https://srp.iitr.ac.in/>



- Scientific & Engineering Software

<https://iitr.ac.in/Centres/Institute%20Computer%20Centre/Software.html>

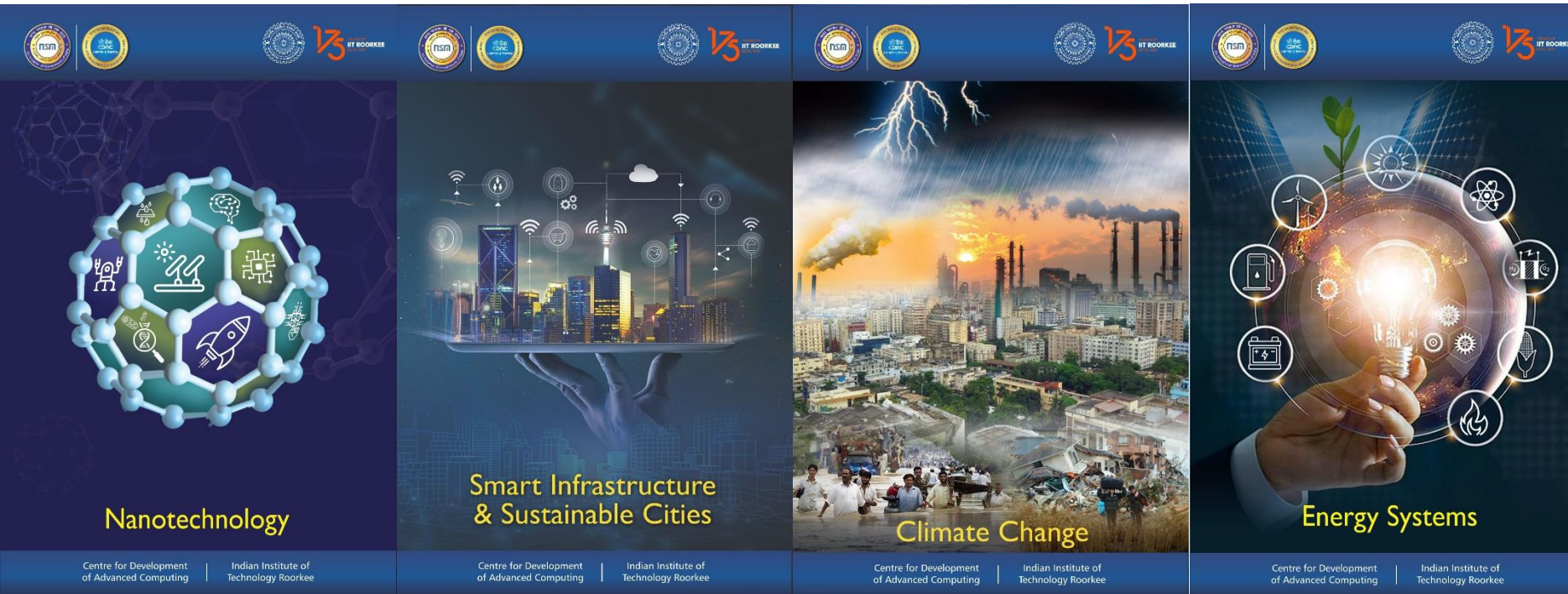
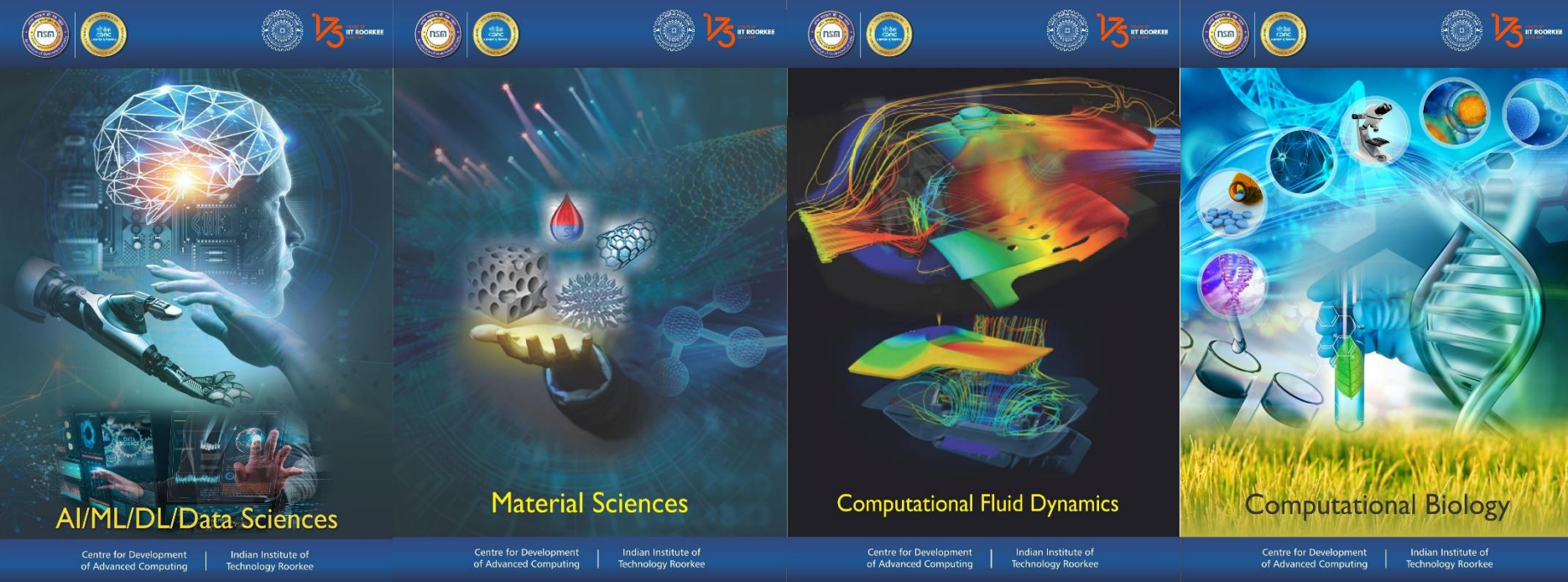


**Contact:** [software-support@iitr.ac.in](mailto:software-support@iitr.ac.in)



## Services by ICC: Computing Resources





**PARAM Ganga**  
([www.hpc.iitr.ac.in](http://www.hpc.iitr.ac.in))



# PARAM Ganga ([www.hpc.iitr.ac.in](http://www.hpc.iitr.ac.in))

- PARAM Ganga – High-Performance Computing (HPC) system under the NSM has been established at IIT Roorkee.
- The supercomputer PARAM Ganga is based on a heterogeneous and hybrid configuration of Intel Xeon Cascade lake processors, and NVIDIA Tesla V100. There are **312 (CPU+GPU+HM) nodes** with a total peak computing capacity of **1.67 (CPU+GPU+HM) PFLOPS performance**.
- The cluster consists of compute nodes connected with the Mellanox (HDR) InfiniBand interconnect network. The system uses the **Lustre parallel file system** and operating system is **CentOS 7.x**.



# PARAM Ganga - System Configuration

## System Specifications

Theoretical Peak Floating-point Performance Total (Rpeak)	1.67 PFLOPS
Base Specifications (Compute Nodes)	2 X Intel Xeon Cascadelake 8268, 24 Cores, 2.9 GHz, Processors per node, 192 GB Memory, 480 GB SSD
Master/Service/Login Nodes	20 nos.
CPU only Compute Nodes (Memory)	214 nos. (192GB)
GPU Compute Nodes (Memory)	20 (192 GB)
High Memory Compute Nodes	78 nos. (768GB)
Total Memory	104.832 TB
Interconnect	Primary: 100Gbps Mellanox Infiniband Interconnect network 100% non blocking, fat tree topology Secondary: 10G/1G Ethernet Network Management network: 1G Ethernet

## CPU Only Compute Nodes

- ✦ 214 Nodes
- ✦ 10272 Cores
- ✦ Compute power of Rpeak 953.2 TFLOPS
- ✦ Each Node with
  - ✦ 2 X Intel Xeon Cascadelake 8268, 24 cores, 2.9 GHz, processors
  - ✦ 192 GB memory
  - ✦ 480 GB SSD

## GPU Compute Nodes

- ✦ 20 Nodes
- ✦ 800 CPU Cores
- ✦ 204800 CUDA Cores
- ✦ Rpeak CPU 64 TFLOPS + GPU 312 TF
- ✦ Each Node with
  - ✦ 2 X Intel Xeon Cascadelake 6248, 20 cores, 2.5 GHz, processors
  - ✦ 192 GB Memory
  - ✦ 2 x NVIDIA V100 SXM2 GPU Cards
  - ✦ 480 GB SSD

## High Memory Compute Nodes

- ✦ 78 Nodes
- ✦ 3744 Cores
- ✦ Compute power of Rpeak 347.33 TFLOPS
- ✦ Each Node with
  - ✦ 2 X Intel Xeon Cascadelake 8268, 24 cores, 2.9 GHz, processors
  - ✦ 768 GB Memory
  - ✦ 480 GB SSD



# Workstations with GPU @ RS LAB

<https://rap.iitr.ac.in>

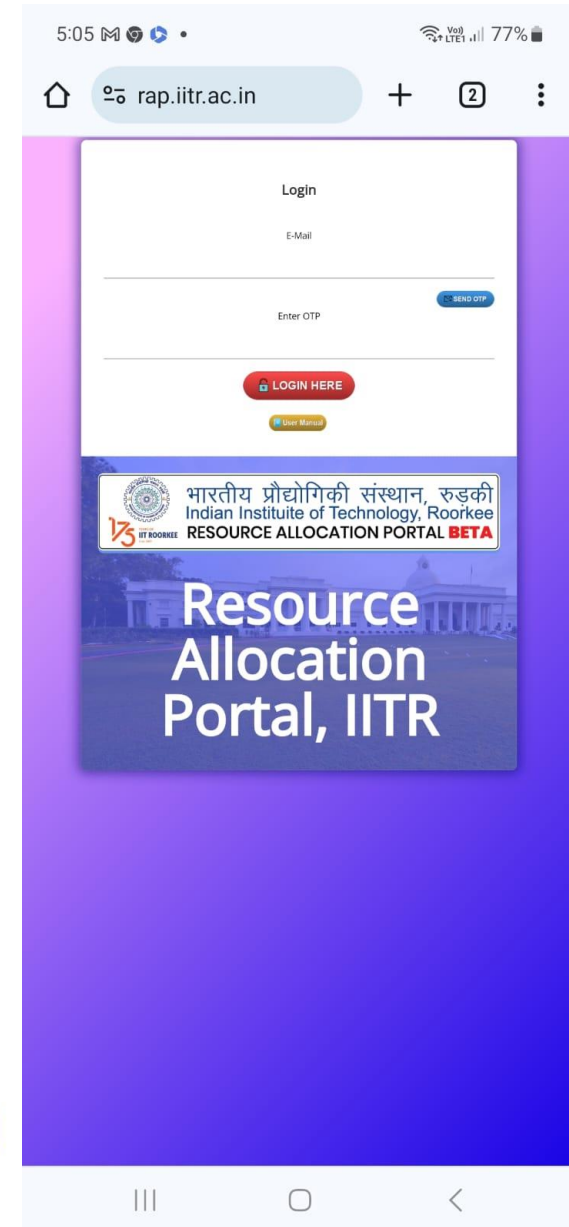
- ICC has conducive compute environment with good ambience and central air conditioning.
- Dedicated systems with specialized software/hardware required for students of B.Tech/M.Tech and PhD scholars during their Projects/dissertation/thesis period in the research Scholar Lab at ICC
- With remote access facility on 365x24x7 basis.
- Scientific and engineering software licenses being served through servers at ICC.

## 20 Nos. High End Workstation HP Z8 G4

- 2xIntel Xeon 5120, 2.2GHz, 24MHz 14C CPU
- 96GB(6x16GB)DDR4 2666 ECC REG
- 6TB 7200 SATA HDD ; 512 GB SSD
- NVIDIA Quadro P5000 16GB Graphic
- HP Remote Graphics SW (RGS)
- HP Z24nf G2 Display

## 5 Nos. Mid Range Workstation HP Z8 G4

- 2xIntel Xeon 4114, 2.2GHz, 24MHz 10C CPU
- 64GB(4x16GB)DDR4 2666ECC RAM
- 4TB 7200 SATA HDD; 512GB SSD
- NVIDIA Quadro P2000 5GB
- HP Remote Graphics SW (RGS)
- HP Z24nf G2 Display



## Services by ICC: Network Resources



# Network Connectivity

- IIT Roorkee main campus: **20 Gbps** leased line link (Railtel) of National Knowledge Network (NKN) from NIC under MHRD Government of India initiative.
- IIT Roorkee Saharanpur campus: bandwidth is 1Gbps. (upgradation going on).
- IIT Roorkee GNEC campus: through PGCIL 90 Mbps P2P Closed User Group (CUG) leased link with IIT Roorkee main campus data centre. (upgradation proposed)

## Existing Hostel Network:

All Hostels have LAN connectivity with CAT-6A cabling. Now, **WiFi** enabled.

# Networking: Whom to Contact

Simply raise a ticket at


<https://network-support.iitr.ac.in/>


Other details are available at <https://www.iitr.ac.in/support/faq/>

You may write to in case there's no response from the team:

[network-support@iitr.ac.in](mailto:network-support@iitr.ac.in)




**Noticeboard**



G

All Notices

Important Notices

Authorities

Bhawans

Campus Groups

Centres

Departments

Bookmarks

Expired

Link to old notices

Important notices

Show All

Date: From - To

All Notices

Placement & Internship Cell	Deutsche Bank : Test Instructions and Schedule For Test	Office Pla...	Nov 21st
Placement & Internship Cell	Prepleaf: GD & PI webinar on Saturday 7PM	Office Pla...	Nov 21st
Placement & Internship Cell	Microsoft(DS): Schedule for Online Test	Office Pla...	Nov 20th
Placement & Internship Cell	Microsoft(SWE): Schedule for Online Test	Office Pla...	Nov 20th
Placement & Internship Cell	Chalo: Schedule for Online Test	Office Pla...	Nov 20th
Placement & Internship Cell	Vedantu: Submission of BioData for Final Year Students	Office Pla...	Nov 20th
Placement & Internship Cell	[Urgent] Cleartax [Analyst]: Submission of Bio-Data for Final Year Students	Office Pla...	Nov 20th

© 2020

Information Management Group

Powered by

Omniport

For Channel i account send e-mail to [website-support@iitr.ac.in](mailto:website-support@iitr.ac.in)

← → ↻

play.google.com/store/apps/details?id=com.channeli.img.noticeboard&hl=en\_IN

Google Play

Search

Apps

Categories

Home

Top charts

New releases

My apps

Shop

Games

Kids

Editors' Choice

Account

Payment methods

My subscriptions

Redeem

Buy gift card

My wishlist

My Play activity

Parent Guide

Channel i Notice Board

IMG News & Magazines

★★★★★ 36

Add to Wishlist

Install

All Notices

Important Notices

Placement & Internship Cell

Deutsche Bank : Test Instructions and Schedule For Test

Office Pla...

Nov 21st

Placement & Internship Cell

Prepleaf: GD & PI webinar on Saturday 7PM

Office Pla...

Nov 21st

Placement & Internship Cell

Microsoft(DS): Schedule for Online Test

Office Pla...

Nov 20th

Placement & Internship Cell

Microsoft(SWE): Schedule for Online Test

Office Pla...

Nov 20th

Placement & Internship Cell

Chalo: Schedule for Online Test

Office Pla...

Nov 20th

Placement & Internship Cell

Vedantu: Submission of BioData for Final Year Students

Office Pla...

Nov 20th

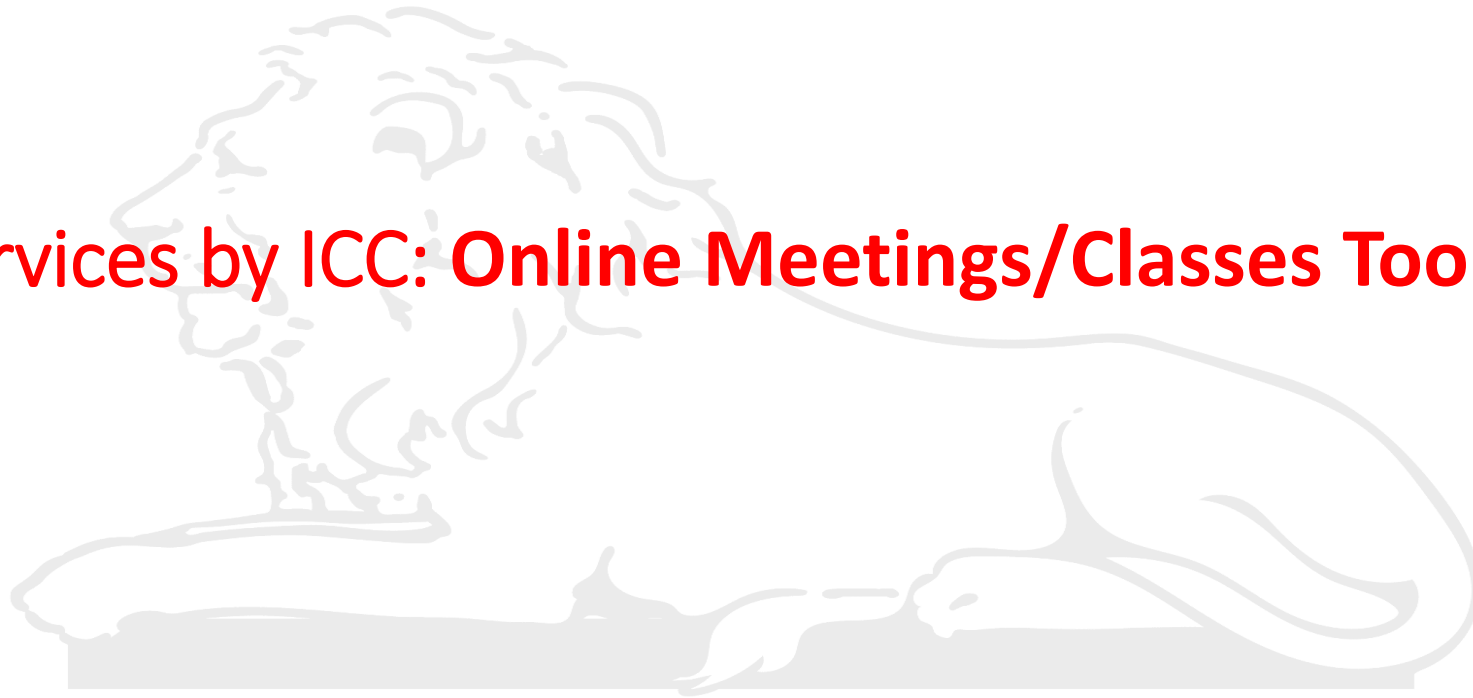
Placement & Internship Cell

[Urgent] Cleartax [Analyst]: Submission of Bio-Data for Final Year Students

Office Pla...

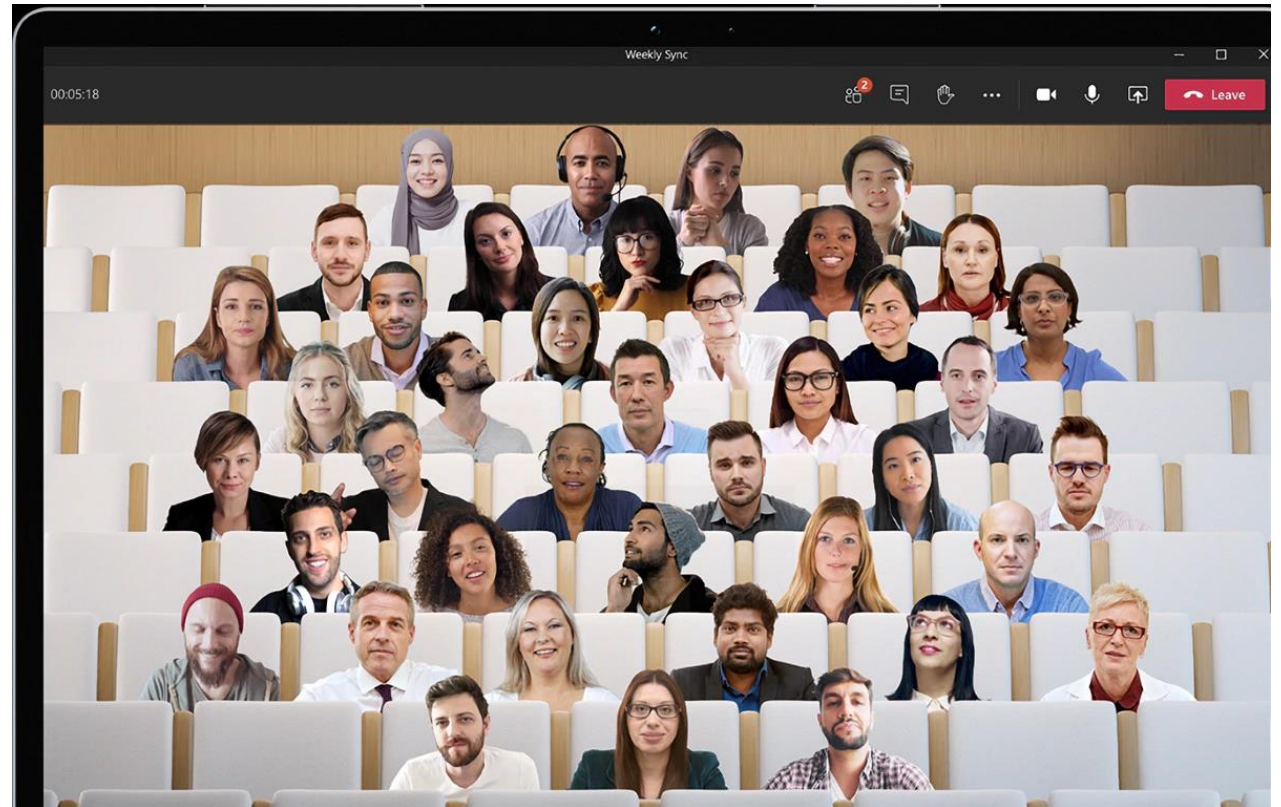
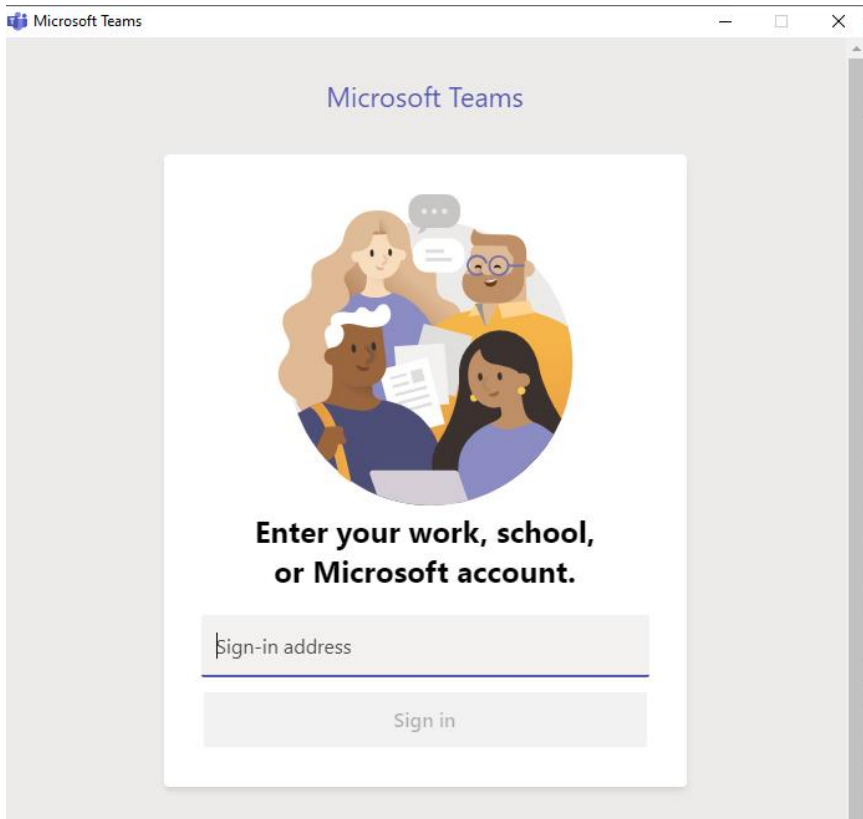
Nov 20th

## Services by ICC: Online Meetings/Classes Tools

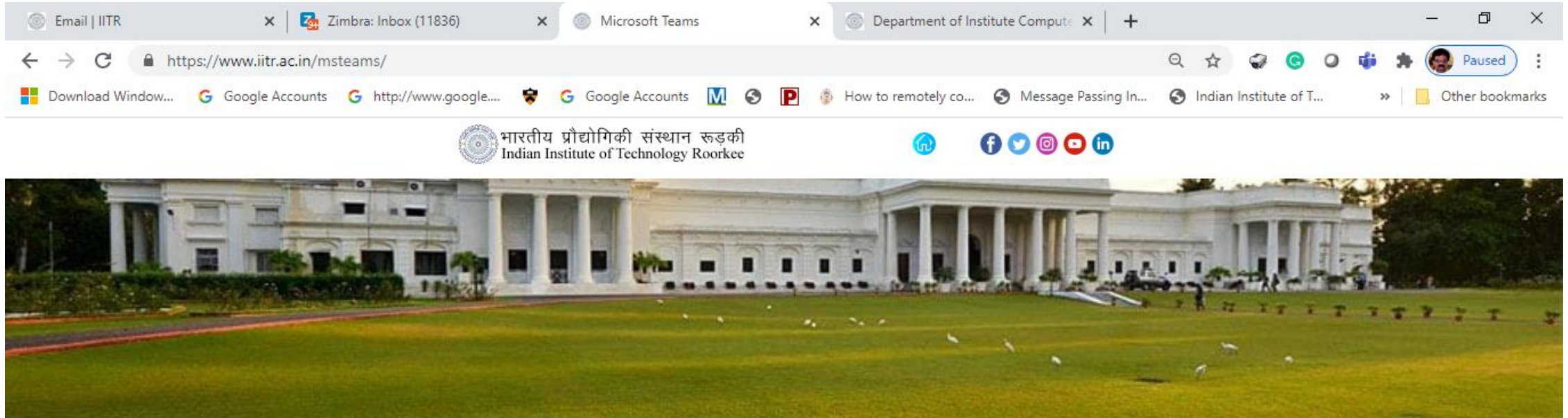


# Microsoft Teams

as a single platform for attending online classes, video meeting & collaboration



<https://www.iitr.ac.in/msteams>



**Contact: [msteams-support@iitr.ac.in](mailto:msteams-support@iitr.ac.in)**



## Services by ICC: IT Systems Security



# Email services: an example

**From:** Email Support <partnerships-175@iitr.ac.in>  
**Date:** 23 July 2022 at 7:46:47 AM IST  
**Subject:** IIT Roorkee - Staff/Student

IIT Roorkee - Staff/Student and  
all visitors to sign in



Dear User,

A news item titled "OHS REQUEST - Students, staff and all visitors to sign in " has been posted on the Indian Institute of Technology Portal.

[View news item](#)

Please note this email has been sent from an unmonitored inbox. Please do not reply.

Your email address is associated to an account in Indian Institute of Technology . If you have received this email in error please contact the school directly. For legal or spam concerns please email [support@iitr.ac.in](mailto:support@iitr.ac.in)  
This email has been automatically generated.

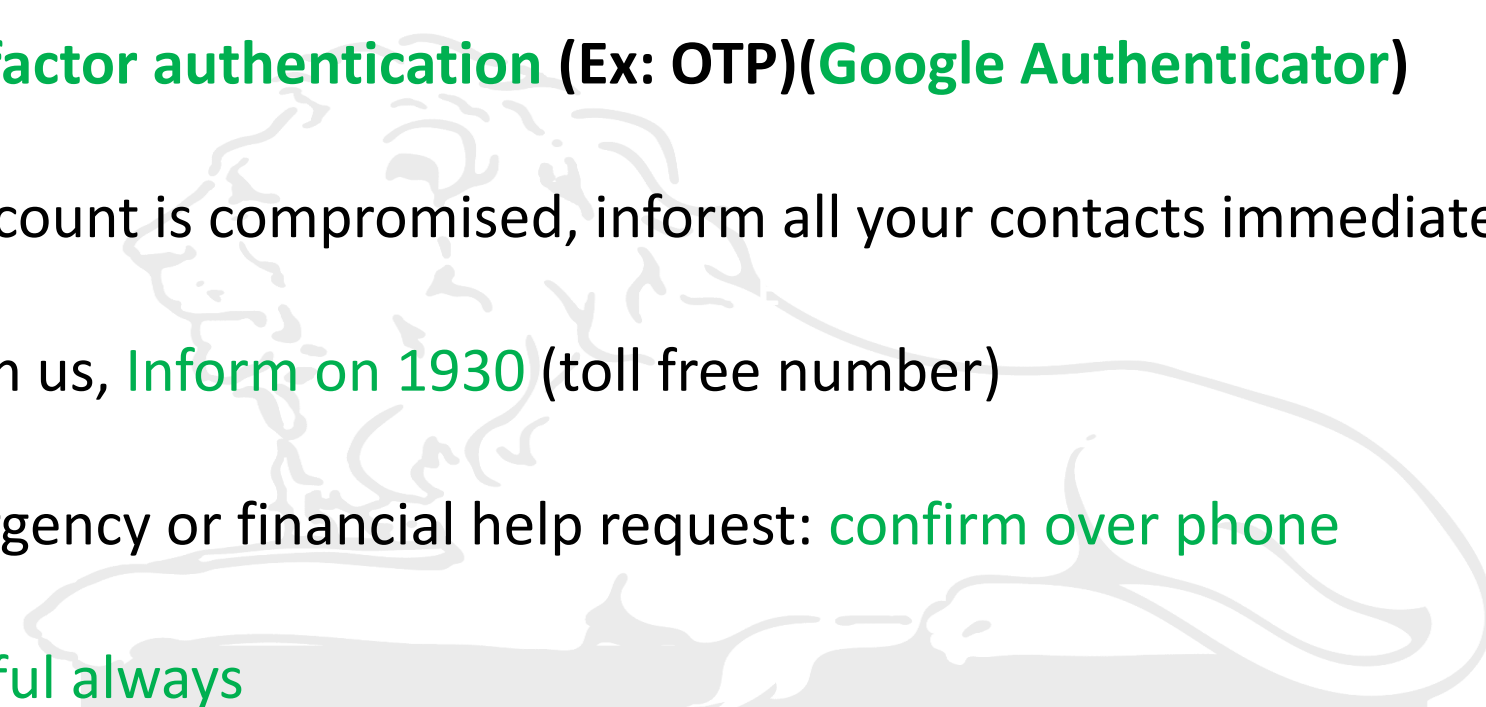
Compass and the associated logos are trademarks used under licence by Compass Education.

Request you all to maintain cyber hygiene and compliance so that internal ids are not compromised and do not become vehicles for such phishing attempts.

Resources:

<https://www.iitr.ac.in/support/email/>

- **Avoid clicking on links** in any e-mail unless it is from a trusted source
- **Do not reply to e-mails** soliciting personal information
- **Never share** password / OTP / ID cards / Bank details / Credit Cards/etc.
- **Never remember** passwords on non-personal system
- **Sign off immediately** after use from non personal computers
- **Beware of** online Lotteries / Loan offers / Video Calls / Free Gifts / etc.

- Use **complex password** and change it periodically (typically every 6 months)
  - Use **two factor authentication** (Ex: OTP)(**Google Authenticator**)
  - If your account is compromised, inform all your contacts immediately
    - Inform us, **Inform on 1930** (toll free number)
  - Any emergency or financial help request: **confirm over phone**
  - **Be watchful always**
- 
- A faint, light gray illustration of a person lying down, possibly a statue or a reclining figure, serves as a background for the lower half of the slide.



# ETHICAL AND LEGAL USE OF SOFTWARE AND ITS COMPLIANCE

1. During your affiliation with IIT Roorkee, you should **never use unauthorized/pirated copies of any software or media** which are in breach of copyright.
2. Now as an informed user, you should understand that such a violation has **following implications**:
  - (i) Violation of Intellectual Property (IP) rights and possible **legal consequences** on account of wilful non-compliance
  - (ii) Unauthorized/pirated software are most likely to **contain malware and ransomware** infecting other devices in the network, which may lead to future losses and thefts
  - (iii) Even for an authorized software license, the terms of end-user license agreement should be adhered to. **An academic license is meant for academic use only** i.e., teaching and research and not for any commercial use. This violation of license agreement also falls under category of wilful non-compliance with **legal implications**.
3. You are expected never to install and use pirated/unauthorized software on any device under your administrative control. You should not indulge in any act that may be construed as use of pirated software.



# Contact us!



Single Link to  
Raise your Ticket/Request:

<https://www.iitr.ac.in/iccsupport/>

Contact: +91 – 1332 - 284444

## Write to us:

- [email-support@iitr.ac.in](mailto:email-support@iitr.ac.in)
- [msteams-support@iitr.ac.in](mailto:msteams-support@iitr.ac.in)
- [network-support@iitr.ac.in](mailto:network-support@iitr.ac.in)
- [website-support@iitr.ac.in](mailto:website-support@iitr.ac.in)
- [gangasupport@iitr.ac.in](mailto:gangasupport@iitr.ac.in)
- [software-support@iitr.ac.in](mailto:software-support@iitr.ac.in)

[head.icc@iitr.ac.in](mailto:head.icc@iitr.ac.in) 

Thanks

---