



VALLURUPALLI NAGESWARA RAO  
VIGNANA JYOTHI INSTITUTE OF  
ENGINEERING AND TECHNOLOGY  
HYDERABAD



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# CYBER INSIGHTS



Department of CSE-Cyber Security  
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NEWS  
LETTER  
ESTD -2023

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# HEAD OF THE DEPARTMENT

DR. M. RAJA SEKAR

PROFESSOR & HOD DEPT.OF CSE-(CYS,DS) AND AI&DS

I AM VERY GLAD TO ANNOUNCE THAT STUDENTS OF OUR DEPARTMENT, CYBER SECURITY IS PUBLISHING THE 1ST ISSUE OF OUR DEPARTMENTAL NEWSLETTER, "CYBER INSIGHTS". THIS NEWSLETTER SUMMARIZES THE ACTIVITIES OF OUR DEPARTMENT FROM JAN TO JUN 2023. THIS NEWS LETTER COVERS ALL THE EVENTS, ACTIVITIES, ACHIEVEMENTS BY THE STUDENTS, FACULTY AND CYBER NEWS .I AM LOOKING FORWARD FOR MANY RELEASES OF THE ISSUES LIKE THIS. ALL THE BEST TO ALL THE STUDENTS IN THE DEPARTMENT.

# COORDINATOR OF CYBER SECURITY

EVERYTHING BIG HAPPENS FROM A SMALL START. I APPRECIATE MY STUDENTS OF CYBER SECURITY DEPARTMENT FOR THE RELEASE OF THIS NEWSLETTER, "CYBER INSIGHTS". I WOULD LIKE TO THANK ALL THE TEACHING FACULTY, NON-TEACHING STAFFS AND STUDENTS FOR THEIR SUPPORT. ALL THE BEST STUDENTS FOR YOUR FURTHER MOVES. I ALWAYS SUPPORT MY STUDENTS AND APPRECIATE THEIR EFFORT.



## TEAM

### CHIEF EDITOR:

DR. M. RAJA SEKAR, PROFESSOR & HOD DEPT.OF CSE-(CYS,DS) AND AI&DS.

### EDITORS:

1. DR. V.PRASHANTHI, SENIOR ASSISTANT PROFESSOR, DEPT.OF CSE-(CYS,DS) AND AI&DS
2. DR.T.PREETHI, ASSISTANT PROFESSOR, DEPT.OF CSE-(CYS,DS) AND AI&DS

### STUDENT EDITORS:

- 1.RAGHAVENDRA SAI(CYS-1ST YEAR)
- 2.HARSHA VARDHAN(CYS-1ST YEAR)
- 3.HEMALATHA(CYS-1ST YEAR)
- 4.HARSHITHA(CYS-1ST YEAR)
- 5.YESHASWINI(CYS-1ST YEAR)



# OUR STAFF

- 1.Dr.M. Raja Sekar - (Prof and HoD)
- 2.Dr.T. Sunil Kumar -(Professor)
- 3.Dr.P. Subash -(Assoc.Prof)
- 4.Dr.V. Prashanthi -(Senior Asst Prof)
- 5.Mr.R. Kranthi Kumar -(Asst. Prof)
- 6.Mrs.Y. Bhanu Sree -(Asst. Prof)
- 7.Mr.V. Surya Narayana Reddy -(Asst. Prof)
- 8.Dr.T. Preethi -(Asst. Prof)
- 9.Mr.P. Veeranjanyulu -(Asst. Prof)
- 10.Mrs.N. Sunanda -(Asst. Prof)
- 11.Mr.P. Vijayaragavan -(Asst. Prof)
- 12.Mr.M .Durgaprasad -(Asst. Prof)
- 13.Mrs.G. Ashalatha -(Asst. Prof)
- 14.Mrs.E. Lalitha -(Asst. Prof)
- 15.Mr.G. Sathar -(Asst. Prof)
- 16.Mr. Manmath Nath Das -(Asst. Prof)
- 17.Mrs.D.Ramya Krishna -(Asst. Prof)
- 18.Dr.Y.Sucharitha -(Asst. Prof)
- 19.Ms.Issac Neha Margaret -(Asst. Prof)
- 20.Ms.N.Sudha -(Asst. Prof)
- 21.Mr. Rajesh Kumar Ojha -(Asst. Prof)
- 22.Mr. K.Sai Bhargav -(Asst. Prof)
- 23.Mr. M.Sunil Kumar -(Asst. Prof)
- 24.Mrs.B.Deepika -(Asst. Prof)
- 25.Mrs.Rasmita Kumari Mohanty -(Asst. Prof)
- 26.Mrs.P.Devika -(Asst. Prof)
- 27.Mrs.G.Mounika -(Asst. Prof)
- 28.Mr.G.Yedukondalu -(Asst. Prof)
- 29.Mr. B.Sangameshwar -(Asst. Prof)
- 30.Mrs.S.Krishnapriya -(Asst. Prof)
- 31.Ch.Akhil -(Asst. Prof)
- 32.R.Sravan -(Asst. Prof)
- 33.A.Pramod Kumar -(Asst. Prof)
- 34.Dr.D.Manju-(Asst. Prof)
- 35.Mrs.J.Manasa -(Jr Computer Programmer)
- 36.Ms.A.Shobha -(Computer Operator)
- 37.Mr.P.Eswar Kiran - (Jr Asst. & Computer Operator)



# EVENTS

## ETHICAL HACKING WORKSHOP

“Ethical Hacking” workshop was organized by Dr. V. Prashanthi and Sai Bhargav on 24th and 25th Jan 2023 under convergence 2K23. Students of all branches attended the workshop.



## VALORANT CONTEST

A gaming event on a game called ‘Valorant Contest’ is conducted on 24/01/2023 and 25/01/2023 under convergence. This event is conducted by the students of Cyber Security and AI and DS 2nd Year. This event is conducted under the guidance of Co-Ordinator Dr. V. Prashanthi and members of the club VJ Garuda Vigilance.



## YOUTH FOR ECO

Lake cleaning drive to Nekkampur lake, Manikonda by the 2nd year students of Data Science-B and Cyber Security accompanied by the NSS team members, VNR VJIEET, and guided by the branch faculties Manmath, Vijayraghavan, Sunanda and Neha with 3 faculties from Basic Science. 128 Students have cleaned the nearby places of the lake and cleaned the nearby roadside.



## PLATFORMS AND SYSTEMS SECURITY IN CYBER SPACE

Platforms and Systems Security in Cyber Space One week faculty development programme was conducted from 30th January to 4th February 2023 under the coordination of Dr.Y. Sucharita and Mr. R. Kranthi Kumar.

## PEACE OF MIND OR PIECES OF MIND

A Guest Lecture on Peace of Mind or Pieces of Mind by Dr. Gajendranath, Assistant professor of IIT Hyderabad was organized on 28th Jan 2023 under the coordination of Mrs. N. Sunanda for all 2nd year students.



## AWARENESS ON CDAC CERTIFICATION

Awareness Session on CDAC certification courses in cyber security by Mrs Lakshmi Eshwari, Director of CDAC, Hyderabad and Mrs Jyostna Gandhi, joint director of CDAC, Hyderabad was organised on 6th February 2023 under the coordination of Dr. V.Prashanthi for all 2nd & 3rd year students.





## DUBAI AIRPORT CASE STUDY

A guest lecture on Cyber security Analytics-Dubai Airport Case Study by Mr. Gopal Thamma Reddy, Director – Global Deals and Sales Enablement – TSO was organized on 18th March 2023, under the coordination of Dr. V. Prashanthi for 1st & 2nd year CYS students.



## CARRER IN GAME

A guest lecture on Make a career in Game Development Industry was organized on 21 st April 2023 under the coordination of Mrs. Krishna Priya for all 2nd year Students.

## ETHICS DEPENDABLE??

A guest lecture on Are Indian ethics dependable? Three approaches of gaining Knowledge by UDAY UDDAVOLU, Sr. Manager, Microsoft Ex-Oracle, Gate Air-11 was organized on 29th April 2023 under the coordination of Mrs. N. Sunanda and Mr. V. Surya Narayana Reddy.

# VNR CYBER WARZONE

VNR Cyber Warzone a CTF event was conducted from 25th April 2023 to 5th May 2023. Total 130 teams has registered for the event. Out of which 90 teams are from VNRVJiet and 40 teams are from other colleges across Hyderabad.

Round 1 was conducted on 25/4/23 in online mode from which 60 teams were shortlisted.

Round 2 was on 1/5/2023 at VNRVJiet in offline mode from which 30 teams were shortlisted.

Round 3 was on 5/5/2023 at VNRVJiet in offline mode from which top 3 teams were shortlisted.

Prize money for 1st winner was Rs 5000/-, 2nd winner was Rs 3000/-, 3rd winner was Rs 2000/-.



# DYNAMICS OF ALGORITHMS

A Guest Lecture on Dynamics of Algorithms by Dr. Abdul Bari, Udemy Instructor & Director ABP Ltd was conducted on 25th May 2023 under the coordination of Mrs. N. Sunanda and Mrs. Y. Bhanu Sree for all 2nd year students.

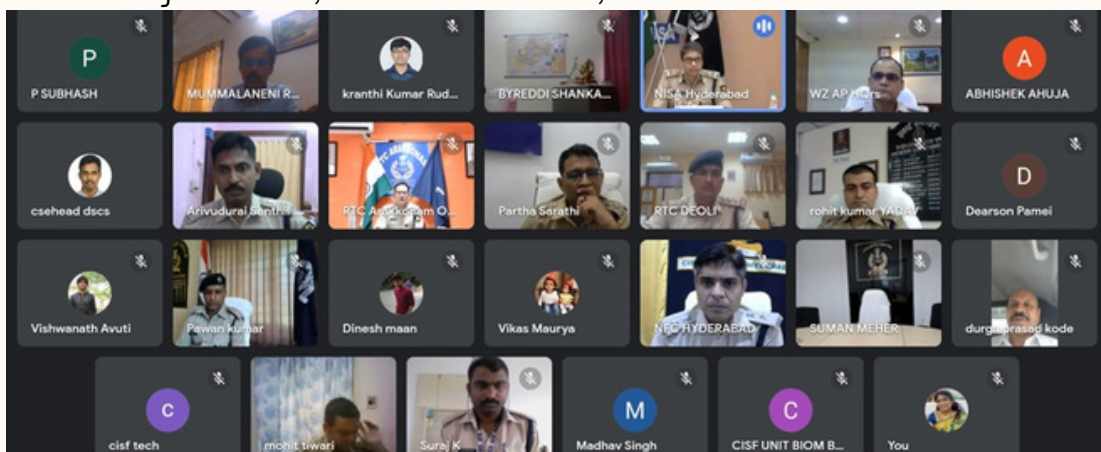


# CYBER TOOLS AND CONCEPTS

A Two Day Work Shop on Cyber Security Tools and Concepts by Kartheek Chanda, Director of ERSEGMENT Solutions PVT Ltd was organized from 26-27th May 2023 under the Coordination of Dr. V.Prashanthi and Dr. T. Preethi, 2nd year Cyber Security students attended the workshop.

# CYBER POLICE

A Webinar on “Cyber Security” for Distinguished police officers from NFC,CISF,NISA,RTC,COMDT across INDIA was conducted on 26-06-2023 by Dr.M.Rajasekar,Dr.P.Subhash,R.Kranthi Kumar.



# GUEST LECTURES ATTENDED



- 2nd year CYS students, Dr.T. Sunil Kumar, Dr. V.Prashanthi and M. Durga Prasad attended IOT eco system and security challenges and opportunities organized by IIT Guwahati in association with centre of excellence with cyber security JNTU Hyderabad on 9th Jan 2023.
- 2nd year Cyber Security students explained the importance and approach to Capture The Flag (CTF) for 1st year cyber security students on 12th January 2023.
- 2nd and 3rd year students of CYS attended guest lecture on Intelligent robots to edge ai cameras: lessons learnt as a machine learning practice by Mr Nishanth Koganti, CEO and Designator Partner EXA Wizards India LLP on 19th Jan 2023.



# GUEST LECTURES ATTENDED



- 2nd year students have attended India Science Festival 2023 at Hyderabad public school on 21st Jan 2012 under the coordination of Mr. M. Durga Prasad.
- 2nd year cyber security students attended 2 day Technical workshop in IIT Hyderabad on 4th and 5th February 2023.
- 1st year students, Mrs. B. Deepika and Mr. M. Sunil Kumar has attended Elan & Vision the Annual Techno-Cultural Fest of IIT Hyderabad, has conducted a 2 days technical workshop in association with "Skill Penchko" on 4 th & 5th February.
- 3rd year students have attended Global EduFest at T-Hub Hyderabad on 10th February 2023 under the coordination of Mr. Sunil Moses.



# STUDENT ACHIEVEMENTS



1. Kalyan Kumar, J.Venkatesh of 2nd year CYS won second prize in VALORANT contest conducted under convergence on 24th Jan and 25th Jan 2023.

2. M.Kowshik, Mani chander and shahriyaar Ahmed of 3rd year won first prize in CTF conducted under convergence on 24th Jan and 25th Jan 2023.

3. Yatin, Akash and Lasya of 3rd year won third prize in CTF conducted under convergence on 24th Jan and 25th Jan 2023.

4. Vishwas and Manichandar of 3rd year won third prize in project contest conducted under convergence on 24th Jan and 25th Jan 2023.

5. Vishwas of 3rd year CYS won second prize in Design-A-Thon which is conducted by VNRVJIET CSE department on 4th Feb 2023.

6. Tanishq of CYS 2nd year has won second prize for HIT – FIRST CHASE which conducted by VJ DATA QUESTERS club, VNRVJIET.

7. Sai Nikhil, Varun Teja and Puneeth Teja of second year CYS won 2nd prize in Cyber Warzone on 5th May 2023 conducted by VNRVJIET.



# STUDENT ACHIEVEMENTS



8. Shahriyaar 3rd year CYS has developed Metro Train App which is available in play store in Feb 2023.

9. Rithika Singh of 3rd year CYS stood first in IBC Media CEP Module 2 2nd phase of BlockChain Training.

10. Yathin, Abhinay, Sumanth and Danish of 3rd year CYS won second prize in Hacakthon TECH SAVISHKAAR at Vasavi College of Engineering on 5th March 2023.

11. Mani Chandar, Vishwas, Mehernath and Karthik of 3rd year CYS won 2nd prize in HACK 4 HIRE Hackathon conducted by Talent map at Gachibowli on 1st April 2023.

12. Keerthana and Keerthi Prassana from CYS 2nd year has won second prize in THE POWER PITCHING HOUSE event of ECFCIO on April 28 2023.

13. Nevan and his team of 3rd year CYS won 1st prize in event padina pata pallavi ayte and 2nd prize in event oke oka chance at Shastra University, Tanjavur , Tamil Nadu, in April 2023.

14. Mr. Koushik of 3rd year CYS got the top 2% in NPTEL exam in Block Chain And Its Applications.

**Elite**  
**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**MENDU KOWSHIK REDDY**  
for successfully completing the course

**Blockchain and its Applications**  
with a consolidated score of **75** %

Online Assignments	23.6/25	Proctored Exam	51/75
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Total number of candidates certified in this course: 1891

Jan-Apr 2023  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL23CS47533752258 To validate the certificate

No. of credits recommended: 12.05



# FACULTY

## ACHIEVEMENTS

1.

Dr. M. Raja Sekar has created a You Tube Channel on Ethical Hacking to share his expertise in Cyber Security. [https://www.youtube.com/watch?v=yKZ\\_e582JF4&list=PLmKXWmhsHrCYuxvFXXomBvXV-xosM9bI3](https://www.youtube.com/watch?v=yKZ_e582JF4&list=PLmKXWmhsHrCYuxvFXXomBvXV-xosM9bI3)

2.

Siddharth Kambale awarded doctor of philosophy on “Analysis off melting ice shelves and mass balance of Antarctica into polar ocean” under the Co supervision Dr. M. Raja Sekar.

3.

Dr. M. Raja Sekar and Dr. T.Sunil Kumar has being selected as Research Supervisor under JNTUH.

4.

Dr. V.Prashanthi and Dr. T.Preethi received Gold certificate for Training of Trainers program on Cyber Security Essentials under FutureSkills Prime programme conducted by CDAC in Feb 2023.

5.

Deepika Borgaonkar, Sudha and Neha attended FDP on“ Cyber Forensics” in online mode from 15th -25th Feb 2023 organized by JNTU Hyderabad.

6.

Dr. M. Raja Sekar gave a session on Cyber Security Issues in Power Sector in Engineering Staff College of India, Hyderabad in March 2023.

7.

Dr V.Prashanthi and Mr.R.Kranthi kumar acted as Jury Member for Internal Hackathon for KAVACH-2023 conducted by CSE-AIML & IOT on 21st April 2023.



# STUDENTS

# INTERNSHIPS

**1.** Ravula Sathvika Reddy of CSE-CYS 3rd year has been offered a summer Internship as a Data Analyst at paypal with 1 Lakh per month.

M.Kowshik Reddy of 3rd year CYS has been offered Internship at Providence Global Center with stipend of 40 K per month. **2.**

**3.** Boorla Akshaya, Ponnuru Rakshitha Reddy, L.Likitha Reddy, T. Yathin Kumar, T.Srija of 3rd year CYS has been offered Internship at JP MORGAN with stipend of 70K /-per month.

Nikhita Bobba of 3rd year CYS has been offered Internship at KPMG INDIA with stipend of 15k per month. **4.**

**5.** Vishnukanth Varma of 3rd year CYS has been offered Internship at JHUB from Jan to April with 12k per month.

T.Akash Vardhan and Dheeraj has joined as intern at DSCI( Data Security council of India) from March 2023 to March 2024 with 16 k per month stipend. **6.**

**7.** P.Neeharika of 3rd year CYS has been offered Internship at EZ TRAINING & TECHNOLOGIES PVT LTD with 20k per month.

Aleti Shriya Reddy, Kalyane, Charitha Sri of 3rd year CYS has been offered Internship at NSL HUB company with stipend of Rs 18K month. **8.**

**9.** Vishwas and Mani Chander of 3rd year CYS has been offered a Internship at Gradvine Advisors Pvt Ltd with stipend 10 K month.

# SCHOLARSHIPS



1. Pendli Akshith of 1st year CY5 has been offered Scholarship of 20, 000 per year, from LIC Golden Jubilee scholarship for 4 years.

2. Pikki Pravallika and T.Sareeka of 1st year CY5 has been offered Scholarship of 40, 000 per year from AMAZON under FOUNDATION FOR EXCELLENCE for 4 years.

3. Vadnala Rasagna of 1st year CY5 has been offered Scholarship of 1 Lakh by talent sprint and supported by Google.



# CYBER SECURITY JOBS



1. Cybersecurity Engineer / Analyst



2. Cybersecurity Manager



3. Cyber Security Architect



4. Security Manager



5. Information Security Officer



6. Network Engineer



7. Ethical Hacker

# CYBER HACKING TOOLS

## METASPLOIT

Metasploit is a powerful and widely-used penetration testing and exploitation framework, renowned for its versatility in assessing and bolstering the security of computer systems. It empowers ethical hackers, security professionals, and researchers to identify vulnerabilities in networks, applications, and operating systems, thus enabling them to address potential weaknesses proactively. The framework offers an extensive array of tools and exploits, allowing users to probe and gain unauthorized access to target systems, all under controlled and legal circumstances. Its modular architecture and comprehensive database of exploits make it an indispensable resource for security practitioners, enabling them to test their systems against known vulnerabilities and even develop custom exploits when needed.

For Video:

[https://drive.google.com/file/d/1tdkiXtkfu8pV\\_LzKzIIqLTTvoRLChpTr/view?usp=sharing](https://drive.google.com/file/d/1tdkiXtkfu8pV_LzKzIIqLTTvoRLChpTr/view?usp=sharing)

By- Sai Nikhil (21071A6225)

# DO'S IN CYBER



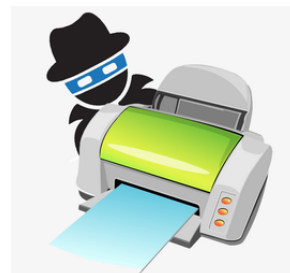
DO use hard-to-guess passwords or passphrases. A password should have a minimum of 10 characters using uppercase letters, lowercase letters, numbers and special characters.

DO remember that wireless is inherently insecure. Avoid using public Wi-Fi hotspots. When you must, use agency provided virtual private network software to protect the data and the device.



DO report all suspicious activity and cyber incidents to your manager and ISO/designated security representative. Challenge strangers whom you may encounter in the office.

DO be aware of your surroundings when printing, copying, faxing or discussing sensitive information. Pick up information from printers, copiers or faxes in a timely manner.



Get the latest anti-virus and firewall software. Download updates regularly to make sure you're protected against any new online threats.

If you are buying from an online website for the first time, do a little research about the site and go through its privacy policies.



Update your internet browser. The latest versions have built-in protection against fake websites and viruses.

# DON'TS IN CYBER

DON'T install unauthorized programs on your work computer. Malicious applications often pose as legitimate software. Contact your IT support staff to verify if an application may be installed.



DON'T leave sensitive information lying around the office. DON'T leave printouts or portable media containing private information on your desk. Lock them in a drawer to reduce the risk.

DON'T click on links from an unknown or untrusted source. Cyber attackers often use them to trick you into visiting malicious sites and downloading malware that can be used to steal data.



Don't let your browser remember your log on details  
It's much safer to re-enter your details every time you log on, even if it takes slightly longer.

Never respond to pop up ads that may come up on your screen. Close such pop ups from the task manager;  
Press Alt+Ctrl+Delete.



If you suspect that a message from a friend is fraudulent or strange, call or meet the friend to discuss it.

# MAJOR CYBER CRIMES

## JANUARY

### T-Mobile Data Breach

Date: January 5, 2023

Attack type: API data breach

Target: T-Mobile

Perpetrator: Unknown

Impact: Limited types of information were exposed affecting 37 million users

On January 19, 2023, T-Mobile, a wireless telecommunication provider in the US, announced that a bad actor had gained access to some customer data through a vulnerable API.

## FEBRUARY

### Bank Accounts Hacked in Nepal

Date: February 3, 2023

Attack type: credential theft

Target: Individuals using net banking

Impact: Several million rupees stolen

Eight malicious actors were arrested in Kathmandu, Nepal, were arrested by the police for hacking into bank accounts. The attackers shared the Android Package Kit (APK) for a fake app called Nepali Keti over WhatsApp.

## MARCH

### BMW SECURITY GETS DINGED TWICE

Date: March 29, 2023

Attack type: Ransomware

Target: BMW company

Impact: Several million data stolen

The first incident came to light on March 10, when researchers with Cybernews discovered publicly exposed files on the BMW Italy website, including an unprotected environment (.env) and .git configuration files.

While it is unknown whether those exposed areas have been accessed by criminals, the .git repository did include highly exploitable source code for the BMW website.



# MAJOR CYBER CRIMES

## APRIL

### ICICI Bank Leaks Sensitive Data of Millions of Clients Due to Misconfigured Systems

DATE: APRIL 20, 2023

Attack type: Personal Information Theft

Target: ICICI Bank holders

ICICI Bank, an Indian multinational valued at more than \$76 billion, recently leaked millions of records containing sensitive information about its clients.

The leaked data included bank account details, bank statements, employees' and candidates' CVs, full names, dates of birth, home addresses, phone numbers, emails and personal identification documents.

## MAY

### Stolen ChatGPT Account Credentials

DATE: May 21 2023

Attack type: Cyber Theft

Target: Individuals using ChatGPT

Impact: Lakhs of bits of data stolen

Over 101,100 compromised OpenAI ChatGPT account credentials have found their way on illicit dark web marketplaces between June 2022 and May 2023, with India alone accounting for 12,632 stolen credentials. The credentials were discovered within information stealer logs made available for sale on the cybercrime underground, Group-IB said in a report.

## JUNE

### KYC FRAUD

DATE: JUNE 24 2023

Attack type: Fake Calls

Target: Individuals holding bank accounts

Impact: Loss of Money

A stranger who called Arun as a bank official instructed him to open the link he was sending and enter the KYC details. Arun did the same and soon his account was empty. When Arun filed a complaint, the police registered the details in an application. How to immediately identify the suspect based on his phone number? How to find out where the money has been diverted? The details of that application were presented by the investigating officer.





WE, THE TEAM OF PANDAVAS ARE VERY THANKFUL TO THE HOD, COORDINATORS AND THE FACULTY, FOR SUPPORTING US TO PUBLISH THE NEWSLETTER. WE ARE VERY THANKFUL TO YOU FOR SPENDING YOUR QUALITY TIME ON IMPROVING OUR KNOWLEDGE, COMMUNICATION AND TEAM SKILLS. THAT WOULD BE EVEN MOTIVATING TO OUR FRIENDS IN OTHER BRANCHES TOO. THANK YOU FOR EVERYTHING AND WE ALWAYS HOPE YOU WILL BE BEHIND OUR EVERY SUCCESSFUL EVENT.

YOURS TRUELY:

- 1.V.RAGHAVENDRA SAI(22071A6263)
- 2.K.HARSHA VARDHAN(22071A6223)
- 3.P.HEMALATHA(22071A6248)
- 4.M.HARSHITHA(22071A6234)
- 5.V.YESHASWINI(22071A6262)

## PROFESSIONAL STUDENT CLUBS

