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BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES & COMMERCE

SAINIKPURI, SECUNDERABAD - 500094
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AUTONOMOUS COLLEGE - AFFILIATED TO OU

CyberSecurity Workshop

Organised by
The Department Of Computer Science
in collaboration with
Supraja Technologies

Key Workshop Highlights:

Introduction to Cyber Security
Network Security Essentials
Introduction to Sniffing
Steganography & Cryptography
Login Bypass
Creating backdoors
Ethical Hacking Techniques

Date: September 25th - 27th, 2023
Time: 9am to 5pm

Key Take aways

Practical Skills
Internship Pathways
Tool Kit
Certifications

REGISTER NOW

Mr.K.Srinivas Rao, M.Sc. CS Course
Coordinator, Dept. of Computer Science
Dr.S.Ramana, Program Coordinator,
Dept. of Computer Science
Mrs.V.Sreeprada, Faculty Incharge,
Dept. of Computer Science
Contact : 90001 45083

Bring Your Gear:
Kindly bring your
laptops, chargers
and a pendrive of
atleast 4GB.

N. B. Shetty

**BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES &
COMMERCE, Sainikpuri.**

**Workshop Report: Cybersecurity Workshop for PG Students in Collaboration
with Supraja Technologies**

Date: September 25th 26th & 27th 2023

Location: N21A labs

Duration: 9am to 5pm

Introduction:

The three-day Cybersecurity Workshop for M.Sc. Computer Science IYr students, held at BVC, Sainikpuri was a comprehensive exploration of crucial topics in the field of cybersecurity. Organized in collaboration with Supraja Technologies, the workshop aimed to enhance students' understanding of cybersecurity concepts, ethical hacking, networking basics, and practical skills in various hacking techniques. The event was designed to empower students with the knowledge and skills necessary to safeguard digital assets and combat cyber threats effectively.

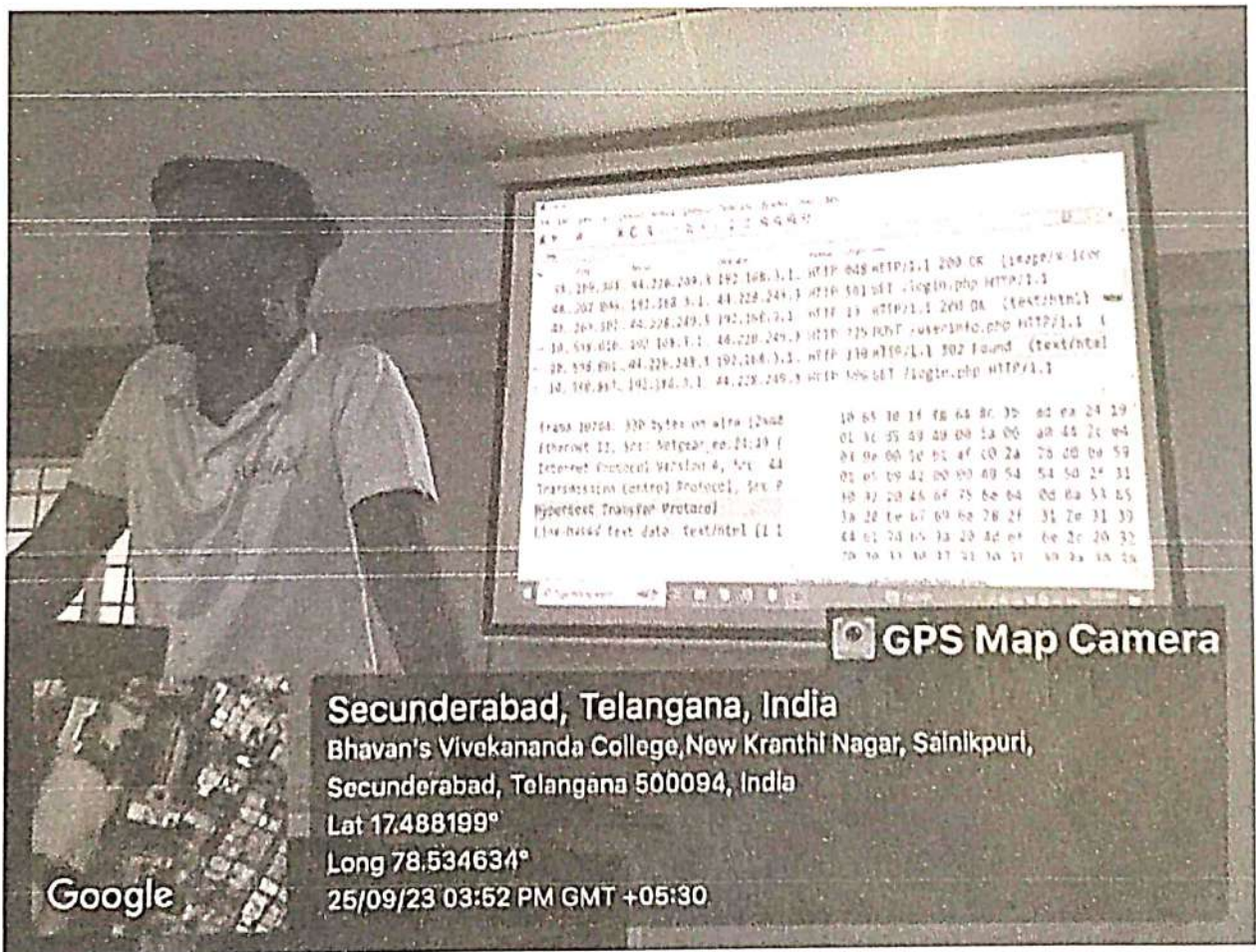
N. B. Shukla



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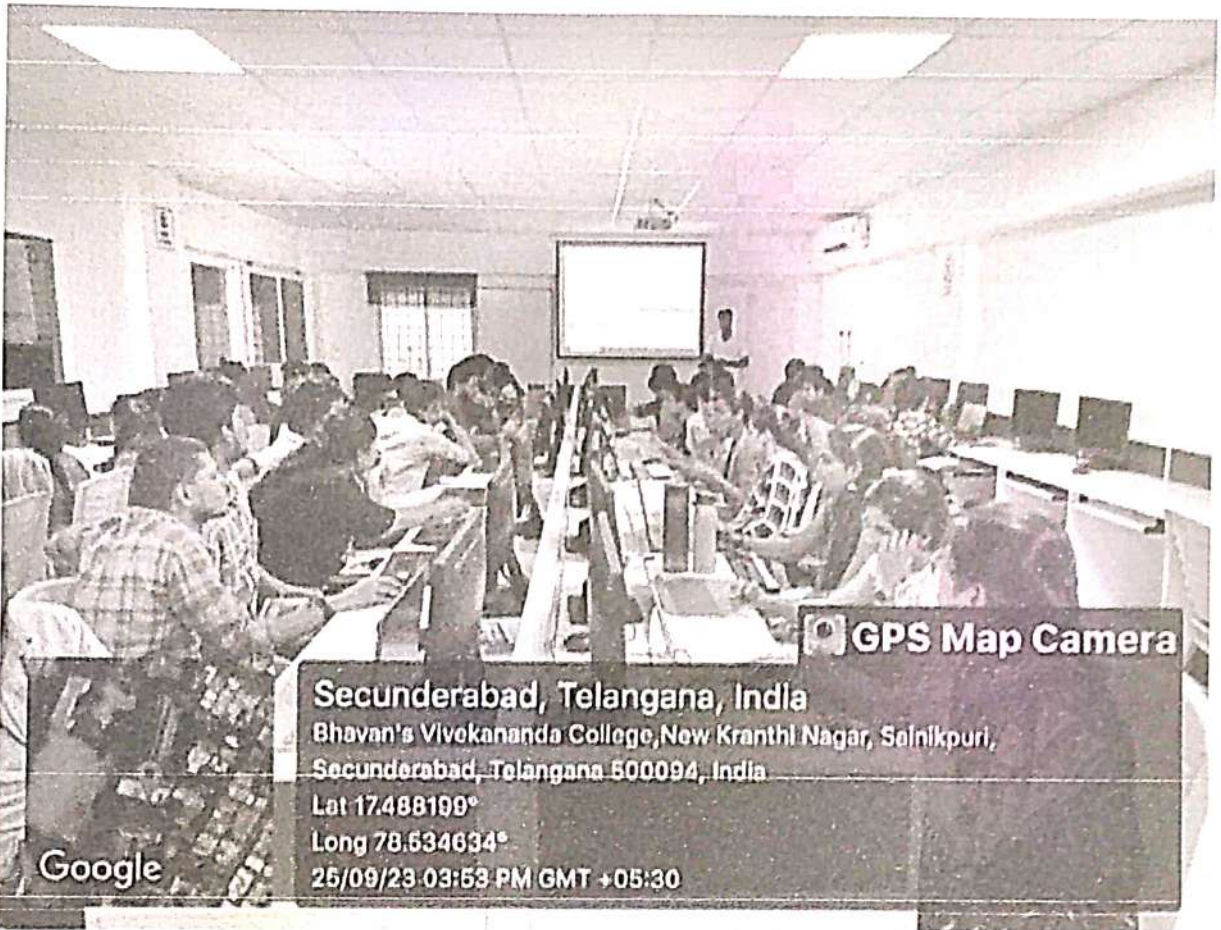


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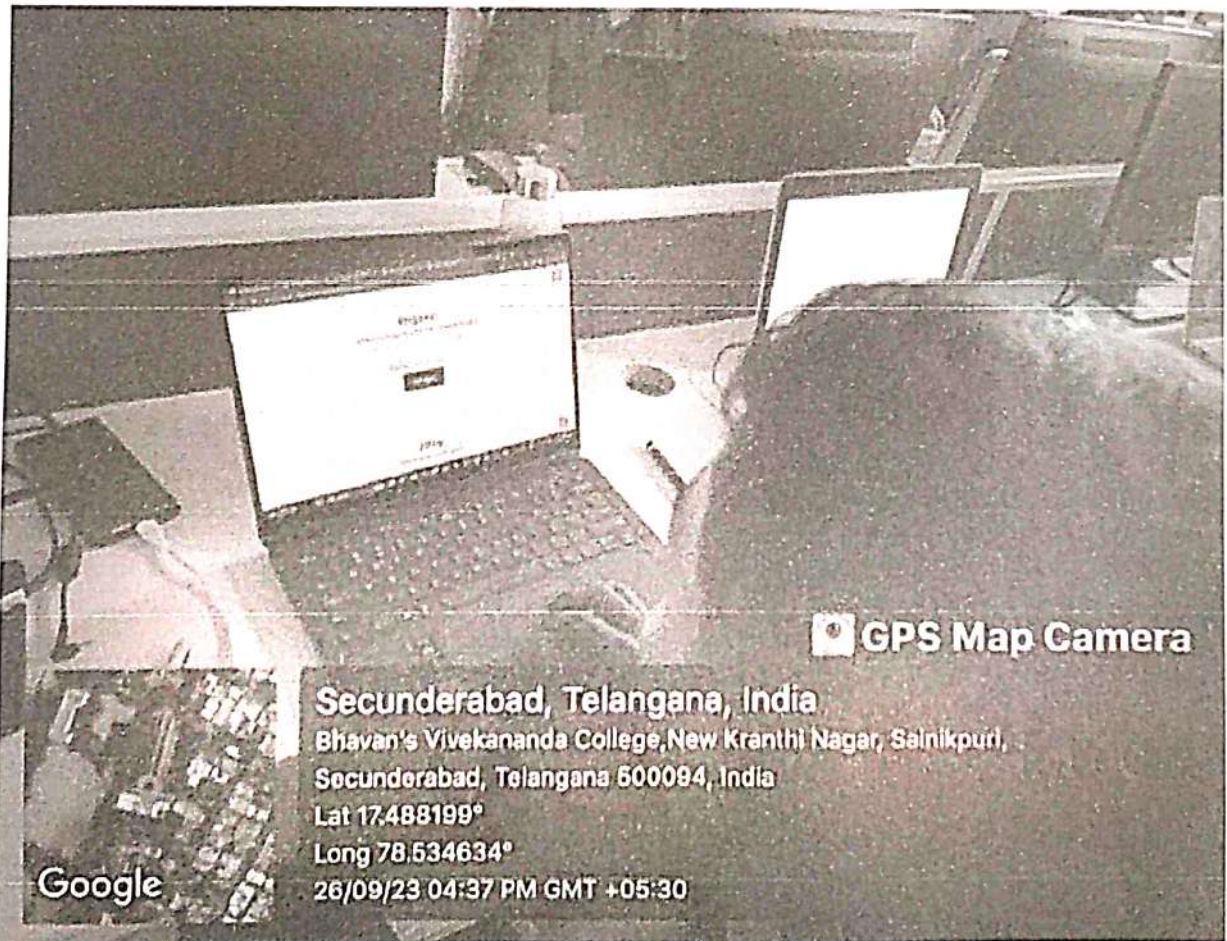
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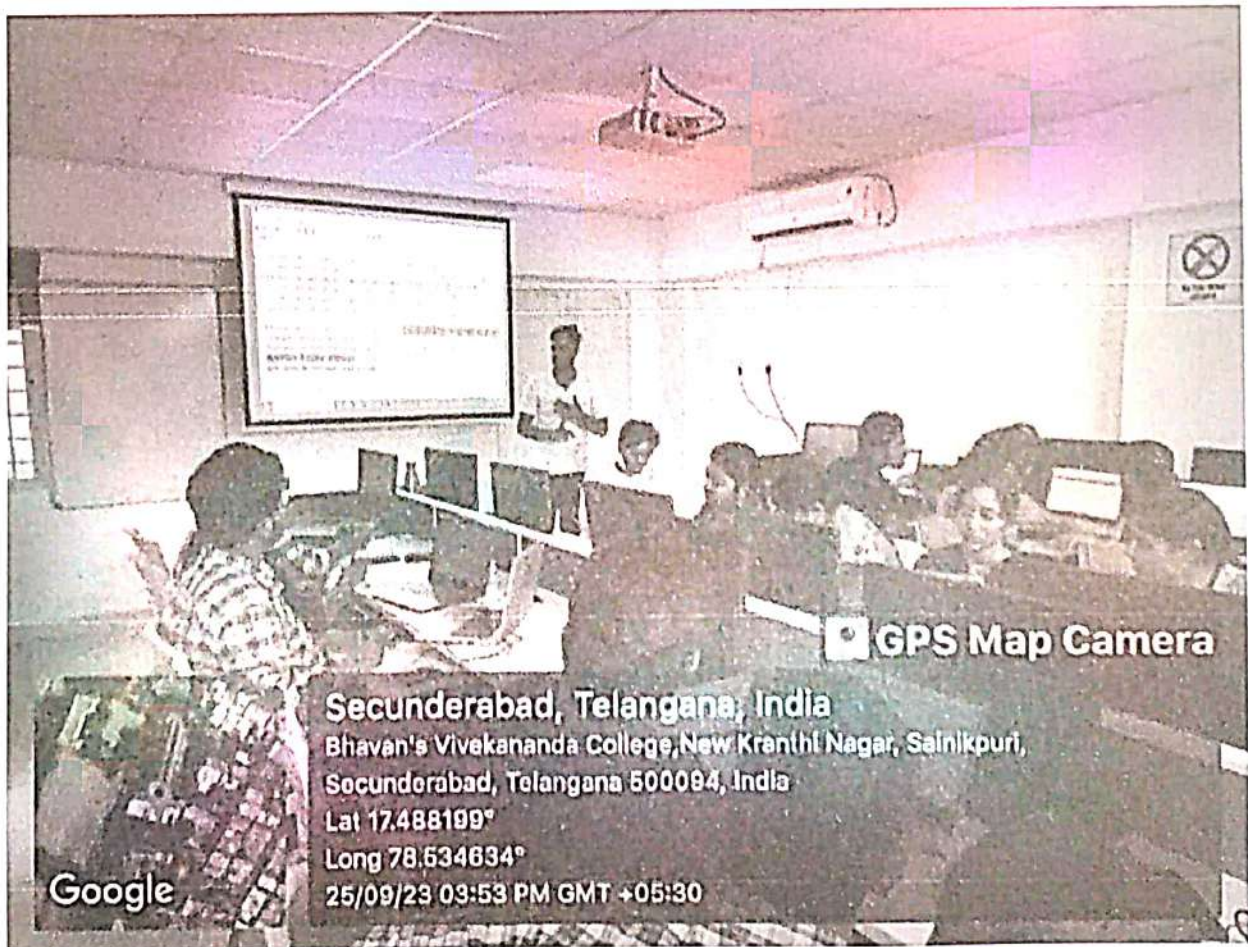
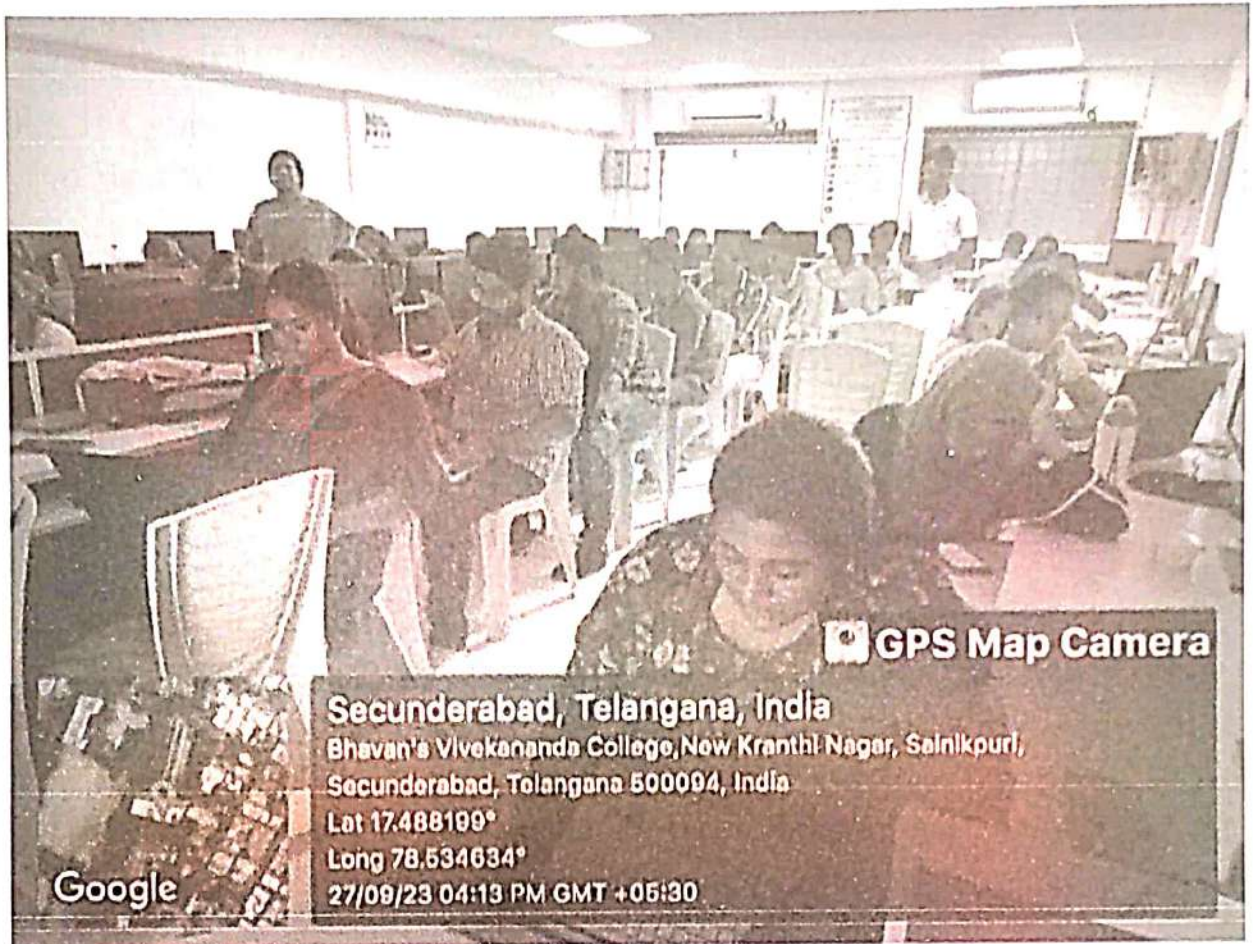


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N. Bhaskar



N. Shukla

CURRICULUM

Day 1: Cybersecurity Fundamentals and Networking Basics

- The first day of the workshop commenced with an introduction to Cybersecurity, covering ethical hacking, types of hackers, and the phases of hacking.
- students gained insights into various ethical hacking certifications, the security triangle, and the Cyber Kill Chain.
- The session also delved into the basics of networking, including network types, ports, IP addresses, and proxies.
- Practical demonstrations of HTTP server response codes, TCP, UDP, and networking protocols provided a hands-on learning experience.

Day 2: Advanced Hacking Techniques and Security Measures

- Day 2 focused on advanced hacking techniques, including sniffing, steganography, cryptography, login bypass methods, and basic attacks such as phishing and social engineering.
- students engaged in practical hands-on sessions, exploring various sniffing methodologies and encryption/decryption processes.
- Additionally, attendees learned about password cracking techniques and advanced methods for Windows and Linux systems.

Day 3: Google for Hacking and Web Application Attacks

- The final day of the workshop emphasized the use of search engines like Google and Shodan for hacking purposes.
- students learned about Google operators and Shodan search engine functionalities, enabling them to identify vulnerable websites and network devices.
- The workshop also covered web application attacks, including an overview of web architecture, common security misconceptions, and SQL basics.
- students gained practical insights into SQL injection, session hijacking, parameter tampering attacks, OTP/2-factor authentication bypass, and no rate-limiting attacks.

Outcomes:

- The workshop yielded significant outcomes for students, including increased awareness of cybersecurity threats and enhanced knowledge of various hacking techniques and preventive measures.

N. B. Shrestha

Attendees developed practical skills through hands-on activities, enabling them to identify and mitigate potential threats effectively. Moreover, the workshop provided valuable networking opportunities, allowing students to connect with industry experts and peers, fostering a collaborative learning environment.


Conclusion:


In conclusion, the Cybersecurity Workshop for PG students was a resounding success, thanks to the expertise and dedication of the team from Supraja Technologies. The workshop not only equipped students with essential cybersecurity knowledge and skills but also inspired them to pursue further studies and careers in the field. By raising awareness and providing practical training, the workshop has significantly contributed to building a more secure digital community.


Acknowledgments:


We express our sincere gratitude to the CEO of Supraja Technologies and his team for their invaluable contributions to the workshop. Their expertise and commitment to cybersecurity education played a pivotal role in the success of the event. We also extend our congratulations to all those students who were offered internships, and we appreciate the active participation of all the students, making the workshop a truly enriching experience.

We would like to extend our gratitude to our Management, Principal and Staff for the immense support in making it possible to organize this workshop.

Mr.N.Bhaskar, 
Head Department of Computer Science

Mr.K.Srinivas Rao, 
M.Sc. CS Course Coordinator,
Dept. of Computer Science

Dr.S.Ramana, 
Program Coordinator,
Dept. of Computer Science

Mrs.V.Sreeprada, 
Faculty Incharge,
Dept. of Computer Science

Date:19-09-2023

To,
The Principal,
Bhavan's Vivekananda College of Science, Humanities & Commerce,
Defence Colony, Sainikpuri.

Respected sir,

Subject: Cyber Security Workshop Conducted by Computer Science Department.

I am pleased to inform you about the Workshop on Cyber Security organized by the Computer Science Department in collaboration with SUPRAJA TECHNOLOGIES at our College. The workshop aims to raise awareness among our students about the importance of cyber security in today's digital age.

The workshop is scheduled from September 25th to 27th from 9 am to 5 pm 2023 in lab N21A at Library Block. A total of 44 students from M.Sc. Computer Science (III Semester) will attend this program. The objectives of the workshop were structured by Supraja Technologies' CEO Mr. Santosh Chaluvadi as follows:

Raise Awareness: The workshop aimed to educate students about the potential risks and threats associated with using digital devices and the internet.

Promote Responsible Digital Behavior: Students will be educated about the significance of responsible online behavior, including the importance of using strong passwords, avoiding sharing personal information online and practicing ethical online conduct.

Hands-on Activities: The workshop included practical exercises and simulations that allowed students to apply their knowledge and learn practical skills to safeguard their digital presence and the basics of encryption and steganography.

Resources for Further Learning: Participants were provided with a licensed toolkit recommended resources to further enhance their understanding of cyber security.

On successful completion of the workshop, the participants will be given certificates through Supraja Technologies, and at the end of the session, the resource members will be conducting an assessment that helps them decide who can avail the internship opportunities provided by them.

The Computer Science Department has initiated this crucial session that will equip our students with the necessary skills to navigate the digital landscape safely. With your encouragement sir, we hope to organize more such events in the future.

We would like to extend our gratitude for your support in making it possible to organize this workshop.

Thank you Sir.
Yours sincerely.


Mr. N. Bhaskar

Dept. of Comp. Sci. Head, Dept. of Comp. Sci.


Dr. S. Ramana

Program Co-Ordinator, Dept. of Comp. Sci.


19/9/2023

Mr. K. Srinivas Rao

Course Co-Ordinator, M.Sc. (CS) program Faculty


Ms. V. Sreerada

Faculty Incharge, Dept. of Comp. Sci.

Dr. G.S.V.R.K. Choudary
Principal, BVC

Bhuvan's College of Science, Humanities & Commerce
M.Sc. Computer Science Cyber Security Workshop

ITNO	Sname	Gender	25-09-2023	26-09-2023	27-09-2023
107222504001	ALLAM SRIDHAR	M	Sridhar	Sridhar	Sridhar
107222504002	AVADHUTHA SAICHARAN	M	A. Saicharan	A. Saicharan	A. Saicharan
107222504003	BAGARI SHIVA	M	B. Shiva	B. Shiva	B. Shiva
107222504004	BANDARU PAWAN KUMAR	M	Pawan	Pawan	Pawan
107222504005	BIYYANI HARI PRIYA	F	B. Hari Priya	B. Hari Priya	B. Hari Priya
107222504006	CHOWDAM ROJA HARI PRIYA	F	Rojaharipriya	Rojaharipriya	Rojaharipriya
107222504007	CH.ROSHINI	F	Ch. Roshini	Ch. Roshini	Ch. Roshini
107222504008	CHEGURI VISHALI	F	C. Vishali	C. Vishali	C. Vishali
107222504009	DEVIREDDY ANUSHA	F	D. Anusha	D. Anusha	D. Anusha
107222504010	DULAM SAIPRANAY GOUD	M	D. Saipranay	D. Saipranay	D. Saipranay
107222504011	ERLANKI SHRAVAN KUMAR	M	E. Shraavan	E. Shraavan	E. Shraavan
107222504012	GADDAM SREEJA	F	G. Sreeja	G. Sreeja	G. Sreeja
107222504013	GOLLA ALEKHYA	F	G. Alekhya	G. Alekhya	G. Alekhya
107222504014	GUMMADI SWETHA RANI	F	G. Swetha	G. Swetha	G. Swetha
107222504015	GUNDA DHANALAXMI	F	G. Dhanalaxmi	G. Dhanalaxmi	G. Dhanalaxmi
107222504016	JAMMU MONALI	F	J. Monali	J. Monali	J. Monali
107222504017	KANDURI GANESH	M	K. Ganesh	K. Ganesh	K. Ganesh
107222504018	KARRE SRIKANTH	M	K. Srikanth	K. Srikanth	K. Srikanth
107222504019	KASOJI GAYATRI	F	K. Gayatri	K. Gayatri	K. Gayatri
107222504020	KURNA RAMYA	F	K. Ramya	K. Ramya	K. Ramya
107222504021	KURVA SRISHAILAM	M	K. Srishailam	K. Srishailam	K. Srishailam
107222504022	MADDELA VAISHNAVI	F	M. Vaishnavi	M. Vaishnavi	M. Vaishnavi
107222504023	MADUPU NIKHILA KUMARI	F	M. Nikhila	M. Nikhila	M. Nikhila
107222504024	MARIYALA RAVI TEJA	M	M. Ravi Teja	M. Ravi Teja	M. Ravi Teja
107222504025	MD SAFIYA ALMASH	F	M. Safiya	M. Safiya	M. Safiya
107222504026	MEDABOINA SHRUTHI	F	M. Shruthi	M. Shruthi	M. Shruthi
107222504027	MOKU VICHITHA	F	M. Vichitha	M. Vichitha	M. Vichitha
107222504028	MUDIGONDA SUSHMA	F	M. Sushma	M. Sushma	M. Sushma
107222504029	MUDUMBA SAI SATHISH CHANDR	M	M. Sathish	M. Sathish	M. Sathish
107222504030	NEELAPU AAKANSHA REDDY	F	N. Aakash	N. Aakash	N. Aakash
107222504031	P ROHITH RAVEENDRAN	M	P. Rohith	P. Rohith	P. Rohith
107222504032	PALLAVAJJULA MAHITHA	F	P. Mahitha	P. Mahitha	P. Mahitha
107222504033	PULAKURTHI BHAVYASRI	F	P. Bhavyasri	P. Bhavyasri	P. Bhavyasri
107222504034	PUTTA RAHUL	M	P. Rahul	P. Rahul	P. Rahul
107222504035	RAVI TEJA BHUKYA	M	R. Raviteja	R. Raviteja	R. Raviteja
107222504036	REGULAGADDA LOUIS MAHANTH	F	R. Mahanth	R. Mahanth	R. Mahanth
107222504037	ROMALA SHASHIDHAR	M	R. Shashidhar	R. Shashidhar	R. Shashidhar
107222504038	SAMUDRAM YOGANANDU	M	S. Yoganandu	S. Yoganandu	S. Yoganandu
107222504039	SUDDALA MANISHA	F	S. Manisha	S. Manisha	S. Manisha
107222504040	SUNKARA JAYA SAI DEEPIKA	F	S. Deepika	S. Deepika	S. Deepika
107222504041	THARAVATH PAVAN VIKAS NAYA	M	T. Pavan	T. Pavan	T. Pavan
107222504042	THATIKONDA SREEJA	F	T. Sreeja	T. Sreeja	T. Sreeja
107222504043	YASA ANUSHA	F	Y. Anusha	Y. Anusha	Y. Anusha
107222504044	YELDURI MEGHANA	F	Y. Meghana	Y. Meghana	Y. Meghana

N. B. Shukla

CERTIFICATE OF PARTICIPATION

Ref No.

This is to certify that *M. G. R. Raghunathan* has

participated in 3 Days Practical Hands-on Workshop on Ethical Hacking & Cyber Security (Level-1)

conducted by Dept. of Computer Science in association with Supraja Technologies from 21st to 23rd Aug,

2023 in Bhavan's Vivekananda College of Science, Humanities & Commerce (Autonomous), Sainikpuri.

Santosh Chaluvadi
Founder & CEO
Supraja Technologies

(a unit of CHSMRLLS Technologies Pvt. Ltd.)



CERTIFICATE

O F A P P R E C I A T I O N



presented to

.....

in recognition for your contribution & dedicated efforts for successfully organizing 3 Days Practical Hands-on Workshop
on Ethical Hacking & Cyber Security (Level-1) conducted by Supraja Technologies from 25th To 27th Sep, 2023 in
Bhavan's Vivekananda College of Science, Humanities & Commerce (Autonomous), Sainikpuri. are greatly appreciated.

We value what you have done. Thankyou!



Santosh Chaluvadi
Founder & CEO
Supraja Technologies

(a unit of CHSMRLSS Technologies Pvt. Ltd.)



Ministry of MSME, Govt. of India





Bhavan

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of Science, Humanities & Commerce
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DEPARTMENT OF COMPUTER SCIENCE

SELF GOVERNING DAY

SEPTEMBER 2ND, 2023



"A GOOD TEACHER CAN INSPIRE
HOPE, IGNITE THE IMAGINATION,
AND INSTILL A LOVE OF LEARNING."

G.M.

N. Shrestha
9/9/23

 **Bhavan's Vivekananda College**
of Science, Humanities & Commerce

Autonomous College - Affiliated to Osmania University
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Sainikpuri, Secunderabad - 500094

Department : Computer Science

Self- Governing Day

Self-Governing Day was organized by the FusionTech Club of the Computer Science Department under the effective guidance of Mr.G.MaheshKumar and Ms.S.JayaLaxmi on 02-09-2023. The aim of the "Self-Governing Day" was to equip or encourage experimental learning techniques. Additionally, the aim of this event is to make the students bold and help them understand how they conduct themselves professionally, if they were educators themselves in Preparing them towards their future goals.



N. Bhaskar
2/9/23

G. Mahesh Kumar
02/09/23

The event featured students from BCA I, II and III, each paired with a designated concern teacher. Below is a table summarizing the participating students, their respective concern teachers, the classes they conducted, the subjects taught, and the tools used for teaching:

Student's name	Concern teacher's name	Classes taken	Subjects taught	Tools used for teaching
Reema Kashmiri	Ms.K.V.B.Saraswathi	BCA 1A	Programming in C	Static model created using thermocol, conducted few fun activities for selection sort and bubble sort. Conducted oral quizzes.
Suha Noureen	Ms.S.Jayalaxmi	BCA1A	Introduction to web technologies	PPT, practical codes(project), oral quizzes
Adep Ajay	Mr.k.Naveen kumar	BCA1B	Introduction to Web Technologies	Live examples with oral quizzes
S. Siddharth	Ms. K.Padmapriya	BCA1B	Programming in C	Google Form, example using students to explain 1D and 2D arrays.
Pushyaarag. C	Mr.S.Naveen Kumar	BCA1B	Introduction to Web Technologies (Lab)	Explained with codes using systems in the computer lab.
M. Vijayalakshmi	Ms.B.Divya Rekha	BCA2	Database Design	PPT
Sethu	Ms. Sharon Rosy	BCA2	Operating Systems	PPT, Google Form
Maanya	Ms. S.Jayalaxmi	BCA3	Object Oriented System Design	PPT
Shoeb Khan	Mr.G.Mahesh Kumar	BCA3	ASP.NET	White board and pc for practical representation in computer lab.
Naseema	Ms.B.Divya Rekha	BCA3	Software Quality & Testing	PPT
Joice	Ms.K.Padmapriya	BCA3	Data Mining	PPT and white board
Vishnu Vardhan	Ms.B.Vijetha	BCA2	Java programming	PPT

G. M. B.
09/09/23

N. D. Shetty
9/9/23

Tools/Mechanisms Used for Teaching

The tools and mechanisms used by the student teachers during the event can be categorized into three main areas: Model Building, Experiential Learning, and ICT (Information and Communication Technology) tools.

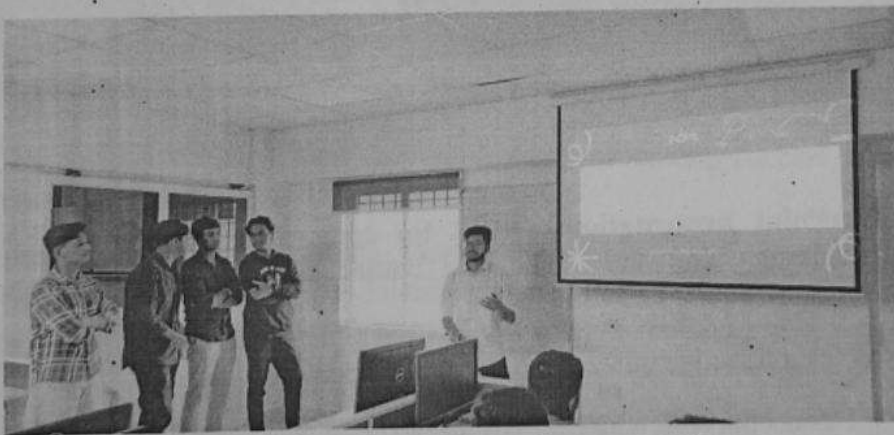
Model Building:

- Utilized **thermocool models** for sorting algorithms and oral quizzes.



Experimental Learning:

- Conducted lab sessions with practical code examples.
- Conducted oral quizzes.
- Employed student-involved demonstrations for 1D and 2D arrays.



G. M. S.
09/09/23

N. Shetty
9/9/23

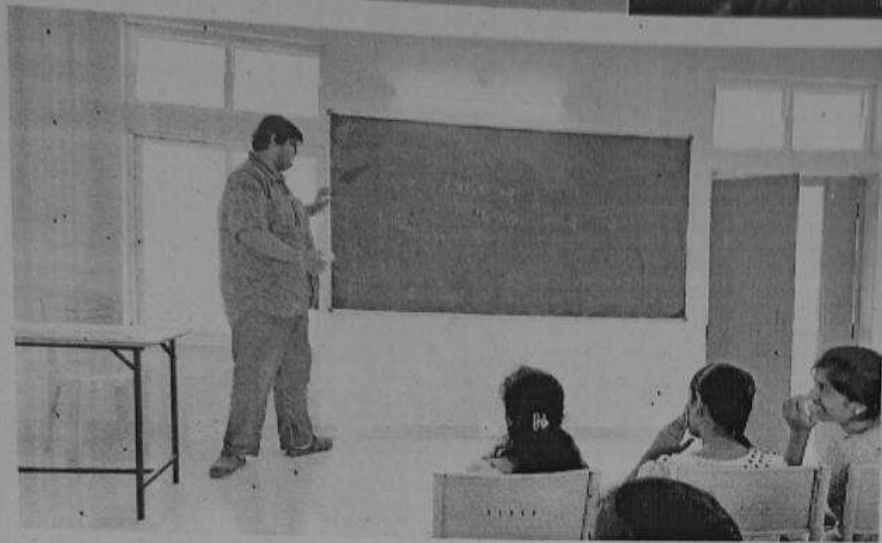
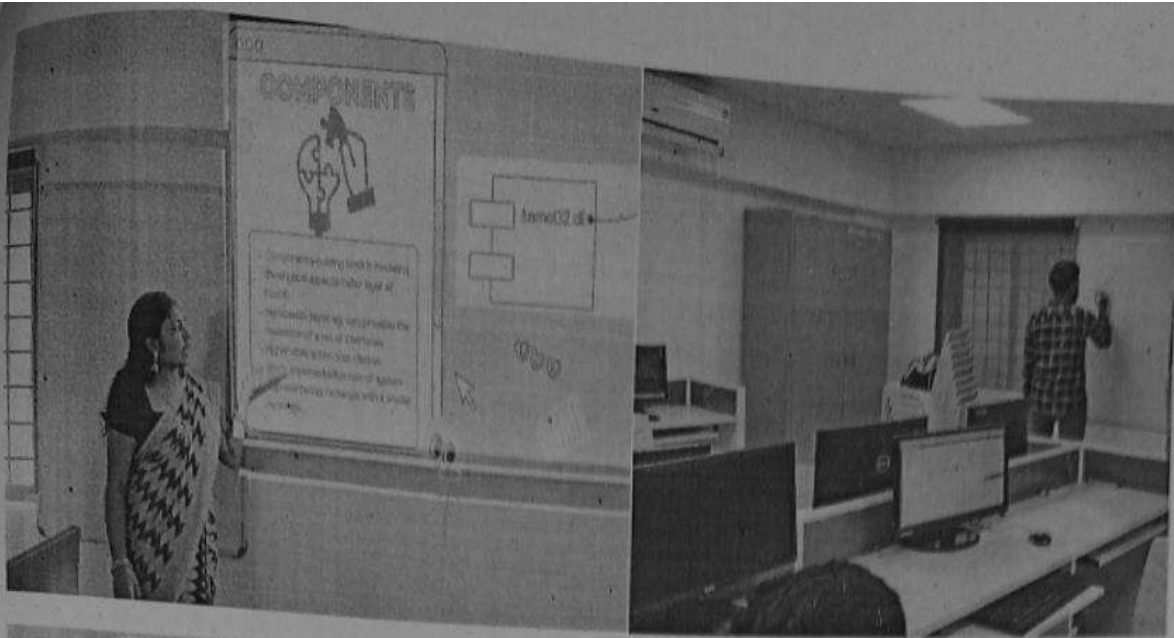


ICT Tools:

- Effectively used **PowerPoint presentations (PPT)** for conveying database design, Object-Oriented System Design, Software Quality and Testing, and Java Programming, Data Mining.
- Utilized **Google Forms** for interactive quizzes in the case of operating systems.
- Demonstrated ASP.NET concepts with **whiteboards** and PCs.

G. M. S.
29/09/23

N. S. S.
2/9/23



Outcome of the event

The "Self-Governing Event" proved to be a resounding success, achieving several noteworthy outcomes:

1. **Enhanced Teaching Skills:** Participating students gained valuable experience and improved their teaching skills by conducting classes. They learned to communicate complex concepts effectively, engage students through interactive methods, and adapt their teaching styles to different subjects and audiences.
2. **Peer Learning:** The event encouraged peer learning as students shared their teaching experiences, challenges, and successes. This collaborative atmosphere fostered a sense of community and support among participants.
3. **Inspiration for Future Educators:** Several students expressed an interest in pursuing teaching as a career after experiencing the event, highlighting the event's success in inspiring future educators.

G. M. M.
09/09/23

N. J. Shukla
9/9/23

4. **Exposure to Teaching Tools:** Students were exposed to a variety of teaching tools and mechanisms, including model building, experimental learning, and ICT tools. This exposure enriched their pedagogical toolkit and prepared them for future teaching roles.

5. **Increased Empathy for Teachers:** Through this experience, students gained a deeper appreciation for the challenges and responsibilities that teachers face on a daily basis. They developed empathy for educators and a better understanding of the efforts required to impart knowledge effectively.

The event ended with a valedictory session in which all the students participated in the event were felicitated.



In conclusion, the "Self-Governing Day" not only provided students with an opportunity to experience the role of teachers but also imparted valuable teaching skills, empathy, and exposure to teaching tools. It served as a testament to the importance of hands-on experiential learning in preparing future educators and promoting a culture of continuous learning and growth.

G. M. S.
09/09/23

N. R. Sankar
9/9/23

**BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES &
COMMERCE, Sainikpuri.**

**Workshop Report: Cybersecurity Workshop in Collaboration with Supraja
Technologies**

Date: August 21st, 22nd & 23rd 2023

Location: N21A, N21B labs

Duration: 10am to 5pm

Introduction:

The Cyber Security workshop conducted by Department of Computer Science in collaboration with the CEO Mr. Santosh Chaluvadi of Supraja Technologies and his three teammates, Mr. Srujan Atluri Senior Security Analyst, Mr. Venkat Sai Kumar, Junior Security Analyst and Mr. Siddhu Kundurthi, Junior Security Analyst was a significant step towards enhancing awareness and knowledge about the critical aspects of cyber security. In an increasingly digital world, where technological advancements are rampant, the workshop aimed to educate Students of final year from UG where a total of 88 students registered for the workshop. The importance of Cyber Security, potential threats, training on hands-on tool and best practices to safeguard digital assets were the main key points of the workshop. The test was conducted on 3-Day training/workshop to assess students. 30 students were qualified and they were offered internship/training to learn new concepts with implementation of tools with a possibility of absorbing them for job opportunities in their organizations. Under the guidance of Mr. Bhaskar, Head Department of Computer Science, Ms. Sreeprada, faculty in Department of Computer Science and coordinator for the workshop along with student coordinators Nishanth Ambati and Chandrahas of B.Sc. MECs – IIIyr conducted and monitored students on these 3-Days.

N. Bhaskar



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SUPRAJA

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CyberSecurity Workshop

Organised by
The Department Of Computer Science
in collaboration with
Supraja Technologies

What's in it for You?

- Practical Skills: Acquire hands-on experience that will set you apart in a technology-driven job market.
- Networking Opportunities: Connect with professionals and peers who share your passion for cyber security.
- Internship Pathways: Showcase your skills during the workshop for a chance to secure prestigious internships with industry leaders.
- Tool Kit: Gain access to a curated toolkit of resources to further enhance your cyber security journey.
- Certification: All participants will be given On-Successful Completion of the workshop recognizing your commitment to cyber security excellence.

For any queries, contact:
Mr. N. Bhaskar, Head Department of Computer Science
Mrs. V. Sreerada, Faculty Coordinator,
Dept. of Computer Science
Student Coordinator: 77022 98507

Key Workshop Highlights:

- Introduction to Cyber Security
- Network Security Essentials
- Introduction to Sniffing
- Steganography & Cryptography
- Login Bypass
- Creating backdoors
- Ethical Hacking Techniques
- Secure Coding Practices

Date: August 21st - 23, 2023
Time: 9AM to 5PM

REGISTER NOW

Bring Your Gear:
Kindly bring your laptops, chargers and a pendrive of atleast 4GB.



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N. Bhaskar



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N. Bhaskar



N. B. Bhuskar



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N. T. Bhatnagar



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N. B. Sharker

Workshop Objectives:

At the end of this Workshop, participants will be able to:

- Understand, perform and secure themselves from various kinds of Ethical Hacking & Cyber Security attacks
- Understand, perform and secure themselves from various kinds of Email, Social Media, System, Servers & Mobile attacks/hacking
- Understand, perform and secure themselves from various kinds of Web Application Attacks and will be able to patch them to produce a secure web application.
- Understand Security Architecture of Mobile Platforms

CURRICULUM (LEVEL- 1)

Day-1

Introduction to Cyber Security

- ✓ Ethical Hacking
- ✓ Types and kinds of Hackers, Phases of Hacking
- ✓ Types of Ethical Hacking Certifications
- ✓ Security Triangle, Cyber Kill Chain
- ✓ Conclusion

Basics of Networking

- ✓ Introduction to Networks
- ✓ Types of Networks
- ✓ Ports, NAT, IP Addresses, Proxies, VPNs
- ✓ OSI Layers, 3-Way Handshake
- ✓ HTTP Server Response Codes
- ✓ TCP, UDP | GET & POST Method
- ✓ Conclusion

Day-2

SNIFFING

- ✓ Introduction to Sniffing
- ✓ Types of Sniffing
- ✓ Practical Hands-on on Various Sniffing Techniques and Methodologies
- ✓ Conclusion

STEGANOGRAPHY & CRYPTOGRAPHY

- ✓ Introduction to Steganography & Cryptography
- ✓ Types of Steganography & Cryptography
- ✓ Hands-on on Various Steganography & Cryptography Tools
- ✓ Extraction of Various Hidden Files/Information and Text
- ✓ Encryption and Decryption of Sensitive Information
- ✓ Conclusion

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LOGIN BYPASS

- ✓ Windows Login Bypass-General & Advanced Methods (User Access Control Bypass for Privilege Escalation)
- ✓ PasswordCrackingforProtectedFiles
- ✓ PasswordCrackingforProtectedFiles
- ✓ LinuxPassCracking-General&Advanced
- ✓ Conclusion

BASIC ATTACKS AND SECURITY

- ✓ Basic Phishing, Advanced Phishing
- ✓ Gmail Password Cracking Using Memory Analysis
- ✓ IDN Homograph Attack
- ✓ Fake Emails
- ✓ Header Analysis
- ✓ Social Engineering Techniques
- ✓ Conclusion

Day-3

- ✓ Google forHacking
- ✓ Using Various Operators of Google
- ✓ Shodan Search Engine
- ✓ Finding Network Webcams, Target Networks and Vulnerable Websites
- Conclusion

Google for Hacking

WEB APPLICATION ATTACKS

- ✓ WEBAPPLICATIONATTACKS
- ✓ IntroductiontotheWebArchitecture
- ✓ SecurityMisconceptions
- ✓ OverviewonOWASPTop10Web Application
- ✓ Vulnerabilities
- ✓ SQL Basics
- ✓ TypesofSQLInjection
- ✓ SessionHijacking
- ✓ ParameterTamperingAttack

N. B. Shukla

- ✓ OTP/2FactorAuthenticationBypass
- ✓ NoRateLimitingAttack

Outcomes:

The cybersecurity workshop yielded several positive outcomes:

Increased Awareness: Participants gained a heightened awareness of cyber threats and the importance of cybersecurity in their personal and professional lives.

Enhanced Knowledge: Attendees acquired a better understanding of various cybersecurity concepts, tools, and techniques to protect their digital assets.

Practical Skills: The hands-on activities equipped participants with practical skills, enabling them to recognize potential threats and respond effectively.

Networking Opportunities: The workshop fostered connections between participants and the experts from Supraja Technologies, creating a supportive network for ongoing learning.

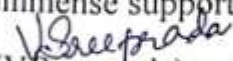
Conclusion:

The cybersecurity workshop conducted in collaboration with the CEO of Supraja Technologies and his three teammates proved to be an insightful and informative event. By addressing the pressing need for cybersecurity education, the workshop contributed to building a more secure digital community. Participants left the workshop better prepared to navigate the complex world of cybersecurity and implement measures to protect themselves and their organizations from potential threats.

Acknowledgments:

We extend our heartfelt gratitude to the CEO of Supraja Technologies and his team for their invaluable contributions to the workshop. Their expertise and commitment to cybersecurity education played a pivotal role in the success of the event. We also thank all the students who registered and congratulate all those who were offered internship in the workshop.

We would like to extend our gratitude to our Management, Principal and Staff for the immense support in making it possible to organize this workshop.


(V.Sreeprada)

Coordinator,
Faculty, Department of Computer Science


(N.Bhaskar)

Head of the Department
Department of Computer Science



BHAVAN'S VIVEKANANDA COLLEGE

Report on

VALUE ADDED COURSE ON INTERNET OF THINGS

The Department of Computer Science and the Dept. of Physics & Electronics in collaboration with Siddhartha Technologies and Services organized a 30hrs value added course on “INTERNET OF THINGS” for under graduate students from 18th July to 4th August 2023.

This is an interdisciplinary course which is scheduled for 2hrs per day with practical session. Students learnt about Arduino programming, interfacing the Sensors by using NodeMCU Module.

A total of **52** students attended the course from different streams.

The Course Content was delivered and demonstrated by

1. Mrs. M.Prasanna, **HoD**, Dept. of Physics & Electronics
2. Mrs. V. Padmapriya, Lecturer, Dept. of Computer Science
3. Mrs. V. Lavanya, Lecturer, Dept. of Physics & Electronics
4. Mrs. M. Amitha, Lecturer, Dept. of Computer Science
5. Mr Bipin Gondane, Resource Person , Siddhartha Technologies and Services

Bhavan
BHAVAN'S VIVEKANANDA COLLEGE
of Science, Humanities & Commerce
Secunderabad, Telangana - 500004
Autonomous College, Affiliated to OU
Recognized with 'A' grade by NAAC

Value added course on Internet of Things

ORGANIZED BY:
Department of Computer Science,
Department of Physics & Electronics
In Collaboration with
"Siddhartha Technologies & Services, Secunderabad"

**Rs 500/-
for Kit**

TOPICS:

- ▶ Arduino Programming
- ▶ Interfacing Sensors
- ▶ IoT applications using NodeMCU
- ▶ Applications using Raspi Pico
- ▶ Project Guidance

**Starts from
18th July 2023
to
04th August 2023
3:00 pm - 5:00 pm**

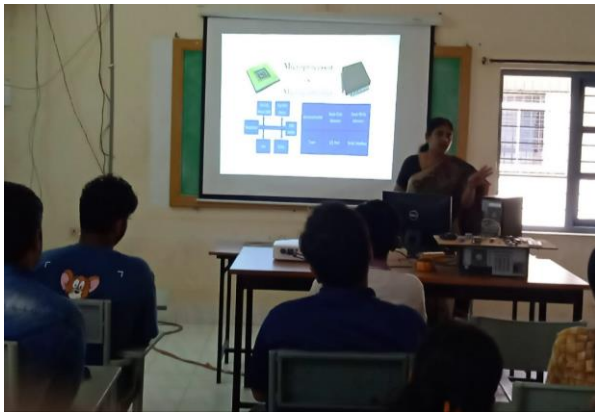
**For more details contact
resource persons:**

Mrs.M.Prasanna (9640077855)	Mrs.V.Padmapriya (92959 52919)
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**CLICK HERE
TO REGISTER**



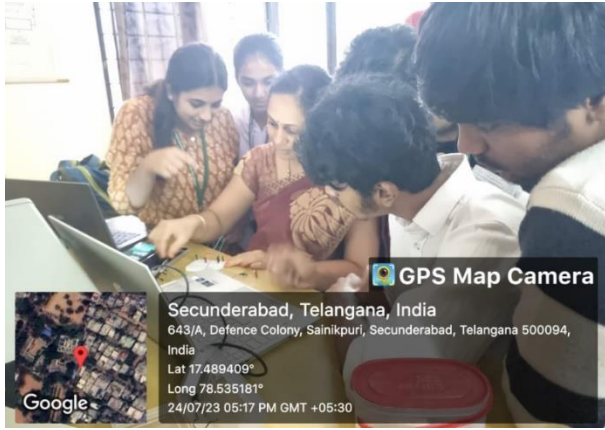
Principal Dr GSVRK Choudary at the inaugural of the Value added course



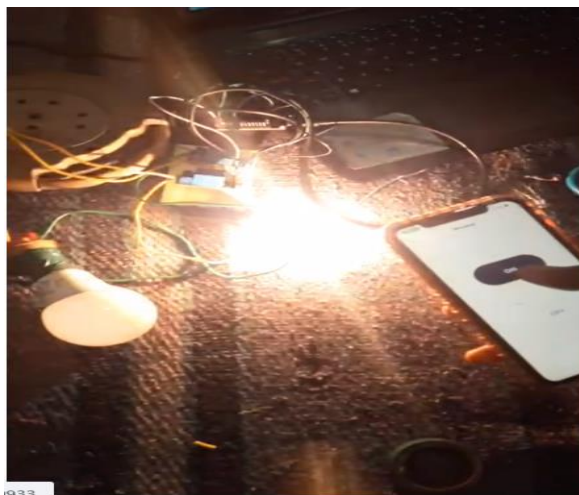
Mrs M.Prasanna demonstrating various IoT boards.



Mr Bipin demonstrating IoT experiments using raspi pico



Students working during the practical sessions - i) blink LED using toggle switch and LDR sensor using NodeMCU Module ii) Controlling light device connected to relay module using mobile app.



Topics covered in INTERNET OF THINGS

Duration: 30 hours programme

Course objectives:

The objective of the course is -

- Provide participants with a solid foundation in IoT concepts, including the underlying technologies, components, and architecture that constitute IoT systems.
- Enable participants to interact with IoT devices, sensors, and actuators, allowing them to apply the knowledge gained to create tangible IoT solutions

Session by Mrs M. Prasanna

(4hrs)

Introduction to Electronic components, Ohm's law, series parallel connections, Digital and analog signals, microprocessors and microcontrollers; sensors and actuators, embedded systems, IoT boards, Arduino Uno, NodeMCU, TinkerCad Simulations for Interfacing sensors to Arduino boards.

Session by Mrs. M Amitha

(4hrs)

Installation of Arduino IDE and add-ons for ESP8266, Arduino IDE Program structure, functions for Input and Output operations, variable declaration and control statements, Programs for LED control, LED with a push button, toggle switch for blinking LED, light control using LDR.

Session by Mrs. Lavanya

(4hrs)

Introduction to IoT, Various communication protocols in IoT, MQTT Communication with NodeMCU through Arduino IDE, LED Controlling through WiFi using Arduino & NodeMCU, LED Controlling from Webpage using Node MCU, Working and interfacing of relay module to Node MCU, Home automation - controlling AC device connected to relay module using mobile app.

Session by Mr. Bipin

(4hrs)

Introduction to Raspberry pi Pico & RP2040, applications using Raspi Pico board using Arduino IDE, Introduction to Raspberry pi Pico (W) and Micro python, IoT protocols and projects using Pico with micropython & Thorny IDE.

Session by Mrs.V. Padmapriya

(4hrs)

Arduino libraries, working and Interfacing of sensors – Temperature, ultrasonic, soil moisture and IR sensors, IoT applications using Arduino IoT cloud

Project guidance:

(10hrs)

Sensor Integration with Node MCU

1. Temperature and Humidity Monitoring Using Node MCU and display values in serial monitor
2. Weather Monitoring station using DHT11 and sending sensor data to cloud
3. Rainfall and soil Moisture sensing using Node MCU and monitoring through mobile application
4. Home automation using relay and controlling devices with Blink Application
5. LED controlling through WiFi using Arduino & Node MCU
6. Smart Street light controlling using LDR
7. Smart Dustbins using Node MCU
8. Interfacing LED with Raspi Pico using Micro python

Course Outcomes

1. Workshop participants will gain a comprehensive understanding of IoT concepts, including the fundamental principles, technologies, and applications that make up the IoT ecosystem.
2. Through practical demonstrations and hands-on activities, participants will have the opportunity to work with IoT devices, sensors, and data, allowing them to gain practical experience in setting up and interacting with IoT systems.
3. Attendees will learn how to prototype and design basic IoT solutions, allowing them to create simple projects that incorporate sensors, actuators, and data processing.
4. The workshop will encourage collaboration between participants from different fields, fostering interdisciplinary discussions and the exchange of ideas related to IoT applications and challenges.

These outcomes aim to provide attendees with all round understanding of IoT concepts, practical skills, and insights into its applications across various sectors. Workshop attendees will receive a certificate of participation, acknowledging their engagement and completion of the workshop's activities.

Value added course - Internet of Things

Students Registration list 2023

Sno	Timestamp	Email Address	Name of the Student	Gender	Name of the Program	Year of Study	Roll Number	Phno
1	7-13-2023 21:55:05	samarthswain92@gmail.com	Samarth swain	Male.	BSC MSCS	I Yr	4408148	8099155387
2	7-14-2023 21:02:03	dhukiaankush@gmail.com	ANKUSH DHUKIA	Female	BSC HDS	I Yr	4415451	9959391869
3	7-14-2023 23:36:49	rohansingh13778@gmail.com	Thakur Rohan Singh	Male.	BSC HDS	I Yr	4408305	8328507893
4	7-15-2023 8:45:39	asrithasaibipc@gmail.com	S.Asritha Sai	Female	BCA	I Yr	87	9346319210
5	7-15-2023 20:11:35	arunisishta@gmail.com	Aruni Tejal Sistla	Female	BCA	I Yr	4413894	8332822563
6	7-16-2023 19:27:19	nswetashreedarsini@gmail.c	N Sweta Shreedarsini	Female	BSC MSCS	I Yr	4666891	9827638658
7	7-16-2023 21:17:15	g.harshitha.hair@gmail.com	G.Harshitha	Female	BSC MSCS	I Yr	4672896	9063573949
8	7-16-2023 22:19:50	honeyhamsini123@gmail.com	Hamsini Alaparthi	Female	BSC MSCS	I Yr	4679985	6300580360
9	7-17-2023 12:02:57	vswaralahari@gmail.com	V.Swara Lahari	Female	BSC MSCS	I Yr	4407949	7075904636
10	7-19-2023 15:04:00	sai pranavid2005@gmail.com	D.Sai pranavi	Female	BSC MSCS	I Yr	43	6304740881
11	7-13-2023 17:34:02	ruthwikgone06@gmail.com	Gone Ruthwik	Male.	BSC MSCS	II Yr	107222467024	8688468545
12	7-13-2023 20:15:21	gangalasathwika@gmail.com	Gangala Sathwika	Female	BSC MSCS	II Yr	107222467023	6304 575 016
13	7-13-2023 21:08:28	shyamhfn19@gmail.com	Goparaju Shyam	Male.	BSC HDS	II Yr	107222546014	9121368456
14	7-13-2023 21:28:53	lp9287006@gmail.com	Galva Laxmi prasanna	Female	BSC MSCS	II Yr	107222467022	9347096715
15	7-14-2023 18:02:12	subhasishchoudhury26@gma	Subhasish Choudhury	Male.	BSC HDS	II Yr	107222546039	9347314472
16	7-15-2023 17:12:44	anirudhvadhyar@gmail.com	ANIRUDH U VADHYAR	Male.	BCA	II Yr	107222861050	8138908152
17	7-15-2023 19:37:42	hemalathayadav669@gmail.c	B. Srikanth Yadav	Male.	BSC HDS	II Yr	107222546008	9121817221
18	7-15-2023 22:55:36	immanuelantony2571@gmail	Immanuel Anthony	Male.	BCA	II Yr	107222861035	7993611852
19	7-16-2023 11:05:54	yellepeddisruthi05@gmail.c	Y.sree sruthi	Female	BSC HDS	II Yr	107222546049	9398470134
20	7-16-2023 11:57:23	sruthi20405@gmail.com	B.sruthi	Female	BSC HDS	II Yr	107222546004	9603039619
21	7-17-2023 12:31:47	sheshimudumba@gmail.com	M.Shesha Kamala vasin	Female	BSC MSCS	II Yr	107222467041	7337489222
22	7-19-2023 16:46:28	ramyathaaa@gmail.com	Ramyatha	Female	BCA	II Yr	107222861007	06281650290
23	7-19-2023 16:47:42	syedsaniya040325@gmail.co	Syed saniya	Female	BCA	II Yr	107222861040	9963950667
24	7-19-2023 16:47:52	tiwarisweta1508@gmail.com	SWATANTRATA TIWARI	Female	BCA	II Yr	107222861039	8374838851
25	7-19-2023 16:50:32	bhavanapanchangam@gmail	Bhavana Panchangam	Female	BCA	II Yr	107222861030	9848639957
26	7-19-2023 16:51:15	moulika2502@gmail.com	Moulika Naidu	Female	BCA	II Yr	107222861021	9652125022
27	7-19-2023 17:09:40	rishibharadwajt@gmail.com	Rishi Bharadwaj	Male.	BSC HDS	II Yr	107222546047	7760909933
28	7-19-2023 17:14:24	krishnasai76926@gmail.com	T Krishna sai	Male.	BCA	II Yr	107222861041	9965603262
29	7-19-2023 17:18:18	tony25021999@gmail.com	D. Nitin Chandra	Male.	BSC HDS	II Yr	107222546012	8125227700
30	7-19-2023 17:19:16	yekashankoushik@gmail.com	Y shan koushik	Male.	BSC HDS	II Yr	107222546048	9000166602
31	7-19-2023 18:19:06	indusankya@gmail.com	S.indu	Female	BSC life Sciences	II Yr	107222573037	6300946669
32	7-20-2023 13:28:38	Bhasker2323@gmail.com	G.BHASKER	Male.	BCA	II Yr	107222861024	90598 35462
33	7-13-2023 12:59:12	ppidugumanisha@gmail.com	Pidugu Manisha	Female	BSC MPCS	III Yr	107221468039	7013863013
34	7-13-2023 12:59:13	kirti211103@gmail.com	Gondu kirti	Female	BSC MPCS	III Yr	107221468020	8602228522
35	7-13-2023 19:00:38	malikarawaf2003@gmail.com	Malika Rawat	Female	BCA	III Yr	107221861020	8523064410
36	7-13-2023 19:13:43	turlapatisethu@gmail.com	T. Sethu Venkat	Male.	BCA	III Yr	107221861042	6303282293
37	7-14-2023 16:16:44	jchandrahashyd2003@gmail	Chandrasah	Male.	BSC MECS	III Yr	107221474093	9515781346
38	7-14-2023 16:17:40	yagnya.nishanth@gmail.com	Nishanth Ambati	Male.	BSC MECS	III Yr	107221474068	7702296507
39	7-14-2023 21:01:27	yuvrajgorak@gmail.com	Yuvraj Gorak	Male.	BSC MECS	III Yr	107221474072	9381046380
40	7-15-2023 23:16:48	ADEPAJAY03@GMAIL.COM	Adep Ajay	Male.	BCA	III Yr	107221861001	8247335709
41	7-16-2023 13:16:13	nandininandu028@gmail.com	Ranga Nandini Gupta	Female	BSC MPCS	III Yr	107221468042	9515872273
42	7-16-2023 20:58:47	abhishekms1048@gmail.com	M.S.Abhishek	Male.	BSC MECS	III Yr	107221474088	6300535812
43	7-16-2023 22:49:46	niheshkumar50@gmail.com	Nihesh	Male.	BCA	III Yr	107221861035	7569844718
44	7-16-2023 23:10:30	sidhu.sindhu39@gmail.com	Siddharth	Male.	BCA	III Yr	107221861036	7207494638
45	7-17-2023 10:35:15	yogeshsoni28704@gmail.com	Yogesh Soni	Male.	BSC MSCS	III Yr	107221467087	7901384338
46	7-17-2023 11:44:15	saisreeja800@gmail.com	Sai Sreeja	Female	BSC MPCS	III Yr	107221468022	9392680550
47	7-17-2023 11:59:10	thirupathimudhiraj523@gmai	Boini Thirupathi	Male.	BSC MPCS	III Yr	107221468050	9704318586
48	7-17-2023 12:09:30	udayudith2017@gmail.com	Uday A Manoj	Male.	BSC MECS	III Yr	107221474090	9912013007
49	7-17-2023 12:12:11	akhilakhi0915@gmail.com	O Sai Akhil	Male.	BSC MECS	III Yr	107221474044	7330602670
50	7-17-2023 12:13:09	gudashruthi231203@gmail.c	Guda Shruthi	Female	BSC MECS	III Yr	107221474020	9502950050
51	7-17-2023 12:36:08	sidharth1772003@gmail.com	Sidharth Nahata	Male.	BSC MSCS	III Yr	107221467053	07093151032
52	7-17-2023 14:24:42	pavanrx43@gmail.com	Kotha pavan	Male.	BSC MECS	III Yr	107221474073	7364813778