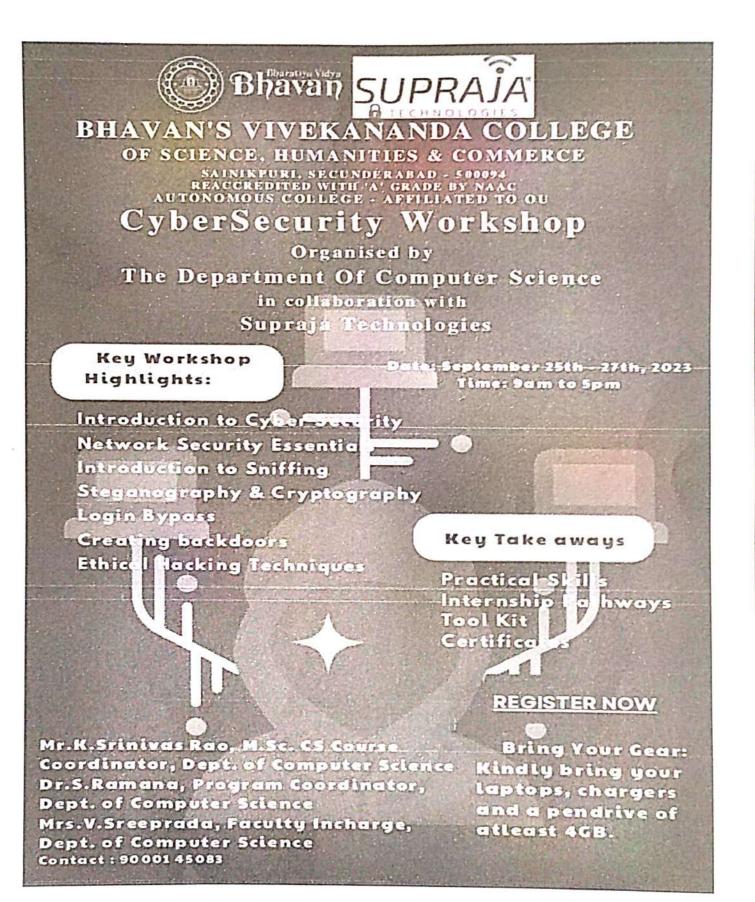


	Guest Lecture
	On 9th February 2024, Dr. Ramana conducted a guest lecture on the career path in Artificial Learning and Machine Learning, emphasizing future growth opportunities in these fields. The lecture took place at Bhavan's Vivekananda College of Science, Humanities, and Commerce, Sainikpuri, under the DBT Star College scheme, Department of Computer Science. Dr. N. Bhaskar Head Computer Science Dept., Mrs. K.V.B Saraswathi, Senior Faculty Computer Science Department, Mrs. K.Padmapriya Assistant Professor Computer Science Department,Mr. Jalaj Kumar Pandey- Assistant ProfessorComputer Science Department, Ms. V Sreeprada- Assistant Professor Computer Science Department, Mr. Houston Ivan Moses-Lecturer Computer Science Department, Mr. K Ashok-Assistant ProfessorComputer Science Department Event coordinator has attended the guest lecture. A total of 144 students from BCA and B.Sc HDS has attended the session, gaining valuable insights into the dynamic and rapidly evolving domains of Artificial Intelligence and Machine Learning.
	Guest Lecture
	Ms. Manaswini P Guest Lecture on 12th January 2023 conducted at 208 seminar hall MBA block for students. Total strength: 160 She has highlighted about the Blockchain as decentralized, distributed ledger technology that securely records transactions across a network of computers. Blockchain ensures transparency, immutability, and tamper resistance, making it the foundation for cryptocurrencies like Bitcoin. She also told about smart contracts, Nonce and PoW.
	Guest Lecture
Particular de la constant de la cons	Dr. E. G Rajan's emphasis on the profound significance of silence in the realm of information stands out. He brought to our attention that amidst the constant buzz of technological advancements, there is wisdom in embracing moments of quiet reflection.
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	Guest Lecture
A Journey into the World of Machine Learning Avijit Roy, Data Scientist, Career Coach	The Department of Computer Science, under the Star DBT Scheme, organized a compelling guest lecture on "Journey into the World of Machine Learning" on January 8, 2024 (i.e. on Monday). The guest speaker for the session was Mr. Avijit Roy. Mr. Avijit Roy is a distinguished professional with a remarkable career journey. He earned his Bachelor's degree in Mechanical Engineering from DR. BC Roy Engineering Institute, During the guest lecture, Mr. Avijit Roy shared insights from his diverse career, shedding light on various job opportunities and providing a comprehensive understanding of the field. The session was enhanced by practical examples, enriching the learning experience for the students and making the lecture highly interactive and engaging.
	Workshop
i, Maharashtra, India PQ, IIT Area, Powai, Mumbai, Maharashtra 400076, 2017° 914588° 03:52 PM GMT +05:30	The faculty members from the Departments of Computer Science, Physics & Electronics and Mathematics & Statistics have attended various workshops at TechFest conducted by IIT Bombay, during 26th to 29th December, 2023. There were various technical workshops (Android, Artificial Intelligence, Solarizer, Amazon Web Services, etc), competitions (Datamatics Hackathon, Drone Racing, Roborace, etc.) and events like EDM night, International Robowars, Guest Lectures, International Exhibitions, Summits, VR and Gaming Setups.
	Workshop
	"Launchpad Delta" Resource Person: Ms N Swathi Rusheetha The Department of Computer Science organised a one day workshop named "Launchpad Delta" for all the M.Sc.(CS) 1st and 2nd year students on 23rd December, 2023. The workshop had various topics which included, IT trends, Resume Building, tools for skill enhancements, web development landscape etc. There was an enthusiastic participation of students for the workshop. Ms Swathi Rusheetha during her talk with the students on Project Implementation, Career Opportunities, and Resume Building with the *M.Sc(CS) I and II years* on 23rd December, 2024

Workshop
"Launchpad Delta" Resource Person: Ms G Rithika Reddy The Department of Computer Science organised a one day workshop named "Launchpad Delta" for all the BCA students on 16th December, 2023. The workshop had various topics which included, IT trends, Resume Building, tools for skill enhancements, web development landscape, briefing about startup ecosystem etc. There was an enthusiastic participation of students for the workshop. Resource person Ms G Rithika Reddy, during her workshop with the BCA students.



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

<u>Workshop Report: Cybersecurity Workshop for PG Students in Collaboration</u> 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 IIyr 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.

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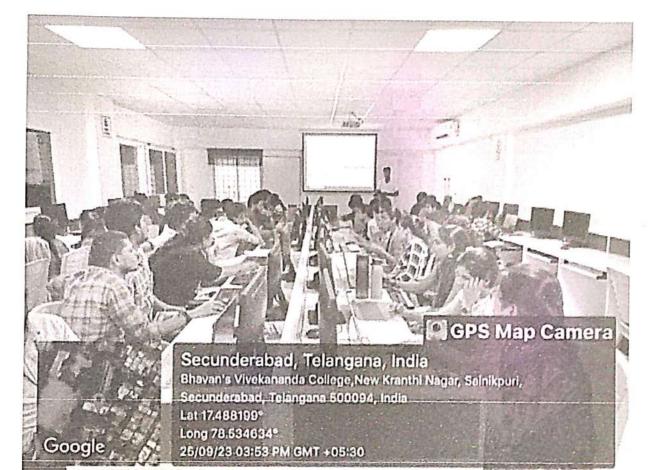
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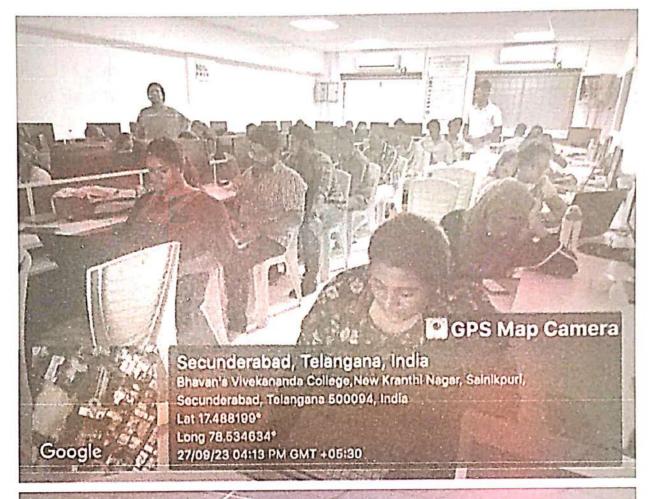
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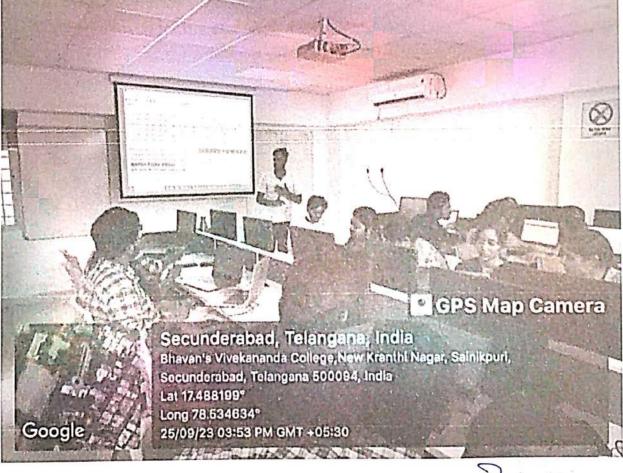
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CURRICULUM

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.

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 \square 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, N. Bhuten

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

V. Saeepraela

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

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 N21Aat 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.

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

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

Mr.K.Srinivas Rao Course Co-Ordinator,M.Sc.(CS) program Faculty

Faculty Incharge, Dept. of Comp. Sci.

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

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OF PARTICIPATION

Ref No.

This is to certify that M. D. Rugmuddun 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 CHSMRLSS Technologies Pvt. Ltd.

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SUPRAJA® DIECHNOLOGIES

Company Identification Number (CIN Number) : U72900AP2019PTC111909 Supraja Technologies Trademark Application ID No for Class 42 : 4146144 Supraja Technologies Trademark Application ID No for Class 41: 4146139 MSME Registration Certificate No : UDYAM-AP-06-0035821 PAN Number : AAICC1770E, TAN Number : HYDC10078F ISO Certificate Number : 031122019107

APPRECIATION ***** CERTIFICATE 0 F

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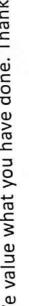
in recognition for your contribution & dedicated efforts for successfully organizing 3 Days Practical Hands-on Workshop on Ethical Hacking & Cyber Security (Level-1) conducted by Supraja Technologies from 25th To 27th Sep, 2023 in

Bhavan's Vivekananda College of Science, Humanities & Commerce (Autonomous), Sainikpuri. are greatly appreciated.

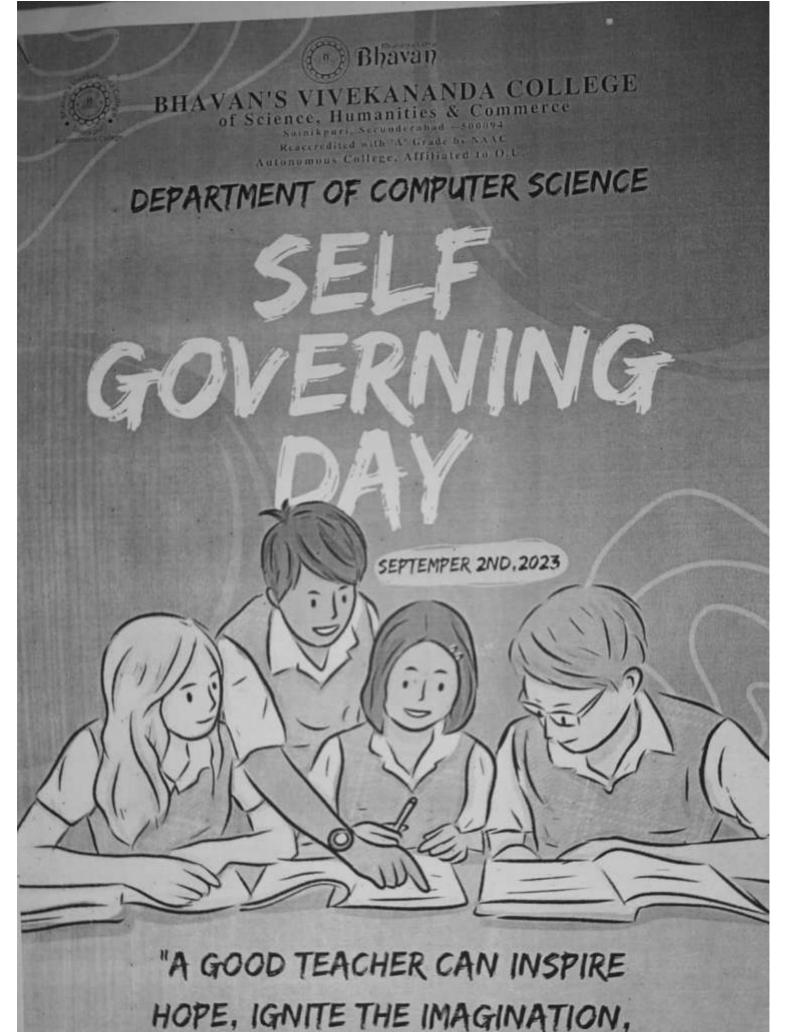
We value what you have done. Thankyou!

Supraja Technologies Santosh Chaluvadi Founder & CEO UL. J JA

(a unit of CHSMRLSS Technologies Pvt. Ltd.)







AND INSTILL A LOVE OF LEARNING

Bhavan's Vivekananda College of Science, Humanities & Commerce

Autonismous College -Affiliated to Osmania University Re-Accerdited with 'A' Grade by NAAC Noinikport. Seconderated 5000%

Department :Computer Science

Self- Governing Day

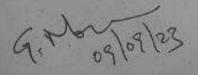
Self-Governing Day was organized by the FusionTech Club of the Computer Science Department under the effective guidance of Mr.G.MaheshKumar and Ms.S.JayaLaxmi on 02r09-2023. The aim of the "Self-Governing Day" was to equip or encourage experimental learning techniques. Additionally, the aim of this event 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.



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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	Classes taken	Subjects taught	Tools used for teachin
Reema Kashmiri	Ms.K.V.B.Saraswathi	BCA 1A	Programming in C	using thermoco conducted few fu activities for selectio sort and bubble sor Conducted ora quizzes.
Suha Noureen	Ms.S.Jayalaxmi	BCA1A	Introduction to web technologies	PPT, practica codes(project), ora quizzes
Adep Ajay	Mr.k.Naveen kumar	BCA1B	Introduction to Web Technologies	Live examples with oral quizzes
S. Siddharth	Ms. K.Padmapriya	BCAIB	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



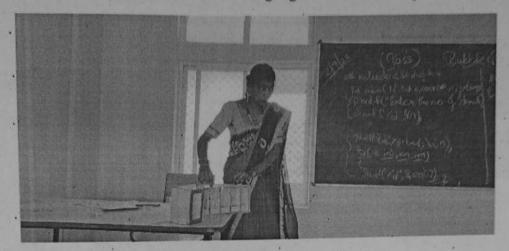
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Tools/Mechanisms Used for Teaching

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:

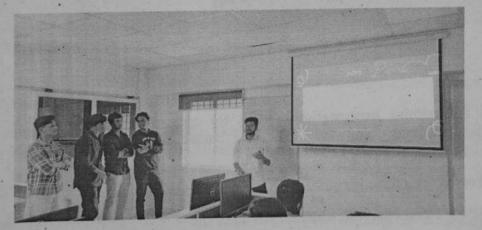
• • Utilized thermocol models for sorting algorithms and oral quizzes.



Experimental Learning:

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



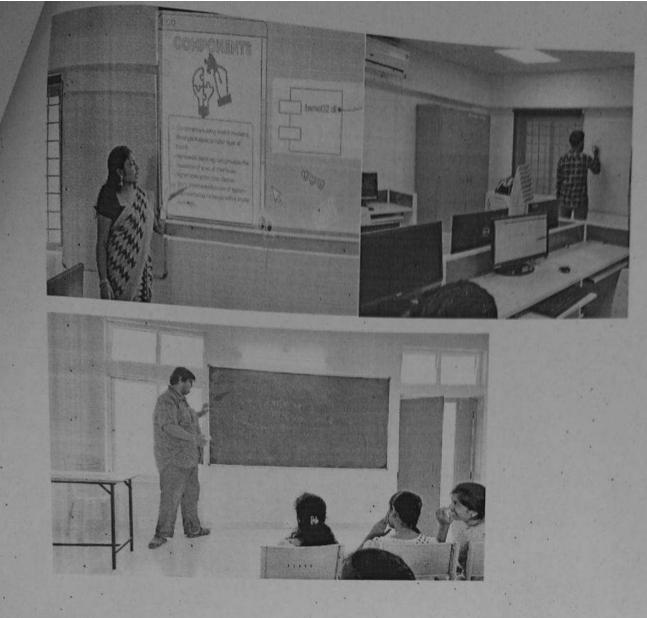
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ICT Tools:

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- 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.



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.

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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.

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

Workshop Report: Cybersecurity Workshop in Collaboration with Supraja <u>Technologies</u>

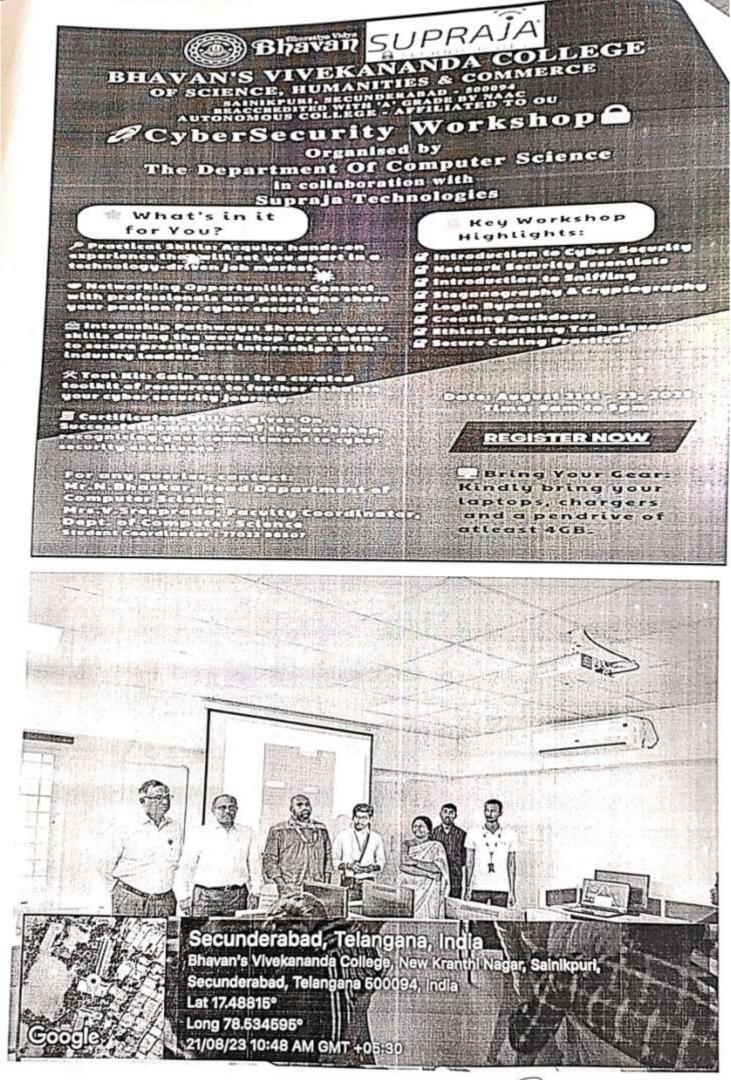
Date: August 21st, 22nd & 23rd 2023

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.



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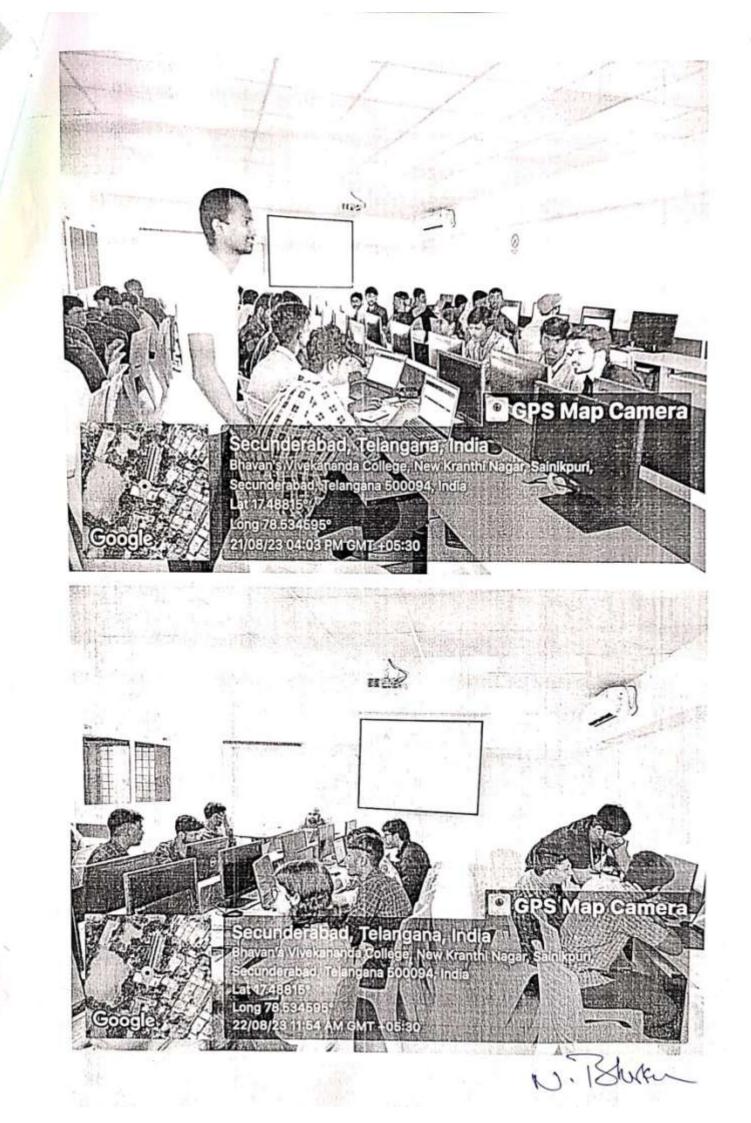


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Workshop Objectives:

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

- Understand, performand secure themselves from various kindso f Ethical Hacking & Cyber Security attacks
- Understand, performandsecurethemselvesfromvariouskindsofEma il, 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,IPAddresses,Proxies,VPNs
- ✓ OSILayers,3-WayHandshake
- ✓ 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

N: 1Shorten

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

14

Google for Hacking

WEB APPLICATION ATTACKS

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

1. Bhoken

- ✓ 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.

Coordinator,

Head of the Department

Faculty, Department of Computer Science

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 18thJuly to 4thAugust 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





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

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

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

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

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.

(4hrs)

(4hrs)

(4hrs)

(4hrs)

Session by Mrs.V. Padmapriya

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

Project guidance:

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.

(4hrs)

(10hrs)

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	l Yr	4408148	8099155387	
2	7-14-2023 21:02:03	dhukiaankush@gmail.com	ANKUSH DHUKIA	Female	BSC HDS	l Yr	4415451	9959391869	
3	7-14-2023 23:36:49	rohansingh13778@gmail.con	Thakur Rohan Singh	Male.	BSC HDS	l Yr	4408305	8328507893	
4	7-15-2023 8:45:39	asrithasaibipc@gmail.com	S.Asritha Sai	Female	BCA	l Yr	87	9346319210	
5	7-15-2023 20:11:35	arunisistla@gmail.com	Aruni Tejal Sistla	Female	BCA	l Yr	4413894	8332822563	
6	7-16-2023 19:27:19	nswetashreedarsini@gmail.co	N Sweta Shreedarsini	Female	BSC MSCS	l Yr	4666891	9827638658	
7	7-16-2023 21:17:15	g.harshitha.hair@gmail.com	G.Harshitha	Female	BSC MSCS	l Yr	4672896	9063573949	
8	7-16-2023 22:19:50	honeyhamsini123@gmail.con	Hamsini Alaparthi	Female	BSC MSCS	l Yr	4679985	6300580360	
9	7-17-2023 12:02:57	vswaralahari@gmail.com	V.Swara Lahari	Female	BSC MSCS	l Yr	4407949	7075904636	
10	7-19-2023 15:04:00	saipranavid2005@gmail.com	D.Sai pranavi	Female	BSC MSCS	l Yr	43	6304740881	
11	7-13-2023 17:34:02	ruthwikgone06@gmail.com	Gone Ruthwik	Male.	BSC MSCS	ll Yr	107222467024	8688468545	
12	7-13-2023 20:15:21	gangalasathwika@gmail.com	Gangala Sathwika	Female	BSC MSCS	ll Yr	107222467023	6304 575 016	
13	7-13-2023 21:08:28	shyamhfn19@gmail.com	Goparaju Shyam	Male.	BSC HDS	ll Yr	107222546014	9121368456	
14	7-13-2023 21:28:53	lp9287006@gmail.com	Galva Laxmi prasanna	Female	BSC MSCS	ll Yr	107222467022	9347096715	
15	7-14-2023 18:02:12	subhasishchoudhury26@gma	Subhasish Choudhury	Male.	BSC HDS	ll Yr	107222546039	9347314472	
16	7-15-2023 17:12:44	anirudhvadhyar@gmail.com	ANIRUDH U VADHYAR	Male.	BCA	ll Yr	107222861050	8138908152	
17	7-15-2023 19:37:42	hemalathayadav669@gmail.c	B. Srikanth Yadav	Male.	BSC HDS	ll Yr	107222546008	9121817221	
18	7-15-2023 22:55:36	immanuelantony2571@gmail.	Immanuel Anthony	Male.	BCA	ll Yr	107222861035	7993611852	
19	7-16-2023 11:05:54	yellepeddisruthi05@gmail.cor	Y.sree sruthi	Female	BSC HDS	ll Yr	107222546049	9398470134	
20	7-16-2023 11:57:23	sruthi20405@gmail.com	B.sruthi	Female	BSC HDS	ll Yr	107222546004	9603039619	
21	7-17-2023 12:31:47	sheshimudumba@gmail.com	M.Shesha Kamala vasini	Female	BSC MSCS	ll Yr	107222467041	7337489222	
22	7-19-2023 16:46:28	ramyathaaa@gmail.com	Ramyatha	Female	BCA	ll Yr	107222861007	06281650290	
23	7-19-2023 16:47:42	syedsaniya040325@gmail.co	Syed saniya	Female	BCA	ll Yr	107222861040	9963950667	
24	7-19-2023 16:47:52	tiwarisweta1508@gmail.com	SWATANTRATA TIWARI	Female	BCA	ll Yr	107222861039	8374838851	
25	7-19-2023 16:50:32	bhavanapanchangam@gmail	Bhavana Panchangam	Female	BCA	ll Yr	107222861030	9848639957	
26	7-19-2023 16:51:15	moulika2502@gmail.com	Moulika Naidu	Female	BCA	ll Yr	107222861021	9652125022	
27	7-19-2023 17:09:40	rishibharadwajt@gmail.com	Rishi Bharadwaj	Male.	BSC HDS	ll Yr	107222546047	7760909933	
28	7-19-2023 17:14:24	krishnasai76926@gmail.com	T Krishna sai	Male.	BCA	ll Yr	107222861041	9966503262	
29	7-19-2023 17:18:18	tony25021999@gmail.com	D. Nitin Chandra	Male.	BSC HDS	ll Yr	107222546012	8125227700	
30	7-19-2023 17:19:16	yekashankoushik@gmail.com	Y shan koushik	Male.	BSC HDS	ll Yr	107222546048	9000166602	
31	7-19-2023 18:19:06	indusankya@gmail.com	S.indu	Female	BSC life Sciences	ll Yr	107222573037	6300946669	
32	7-20-2023 13:28:38	Bhasker2323@gmail.com	G.BHASKER	Male.	BCA	ll 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	malikarawat2003@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.	Chandrahas	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.con	Yogesh Soni	Male.	BSC MSCS	III Yr	107221467087	7901384338	
46	7-17-2023 11:44:15		Sai Sreeja	Female	BSC MPCS	III Yr	107221468022	9392680550	
47	7-17-2023 11:59:10	thirupathimudhiraj523@gmail	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.co	Guda Shruthi	Female	BSC MECS	III Yr	107221474020	9502950050	
51	7-17-2023 12:36:08		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	