



GAYATRI VIDYA PARISHAD COLLEGE FOR DEGREE AND PG COURSES (A)

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Visakhapatnam

Department of Computer Applications

Training Programs (2024-2026)

The following is the list of Training Programs Conducted for the MCA Students in the Department of Computer Applications for the Academic Year 2024-2026.

S.No.	Event	From	To	Trainer	Organizer	Duration
1	Data Structures using Python	05-12-2024	14-12-2024	Kalla Madhu	Madhu Tech Skills	10 days
2	CRP Training	31-07-2025	14-08-2025	Deepak,Roshan,Srihitha, Suraj Chawla,Pradhy	Apex Team	15 days
3	CRT Training	20-11-2025	22-11-2025	Mrs. Chetana Harika Oruganti	Chethana	3 days
4	IoT Training	29-12-2025	07-01-2026	V.Bappuji	Appleton Innovations	10 days
5	cyber security	21-01-2026	28-01-2026	Ravi	cyberthreya	8 days
6	Machine Learning	23-03-2026	31-03-2026	N Venkata Reddy	teckybot	9 days
7	Robotics Training	20-04-2026	22-04-2026	N Venkata Reddy	teckybot	2 days


Director of MCA

Prof. I. S. Pallavi

Director of MCA
Department of Computer Applications
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Department of Computer Applications

Training Programs (2024-2026)

DATE- 04-12-2024

CIRCULAR

It is informed that all the students of MCA 3rd Semester request to attend the training program on **Data Structures using Python** from **05-12-2024** to **14-12-2024** i.e, **10 days** organized by **Data Structures using Python** conducted in the Seminar Hall by Department of Computer Applications, G.V.P. College for Degree and PG Courses(A)


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Department of Computer Applications

Training Programs (2024-2026)

Report on Data Structures using Python

Date of Report: 17-12-2024

Program Title: Data Structures using Python

Duration: 05-12-2024 to 14-12-2024

Faculty Instructors: Kalla Madhu

Program Coordinator: B. Divakar

The **Data Structures using Python** Training Program was conducted from 05-12-2024 to 14-12-2024, organized by **Madhu Tech Skills** Training Institute. The program aimed to equip participants with the fundamental skills and basic knowledge.

Objective

The "Data Structures using Python" program was organized to strengthen students' fundamental understanding of core computer science concepts and their practical implementations in Python. The primary objective was to build algorithmic thinking, optimize problem-solving skills, and help students write memory-efficient, performant code necessary for technical interviews, competitive programming, and software development roles.

Program Structure

- **Days 1–2: Fundamentals, Time Complexity, and Arrays/Lists**

The program initiated with an orientation on memory management and computational efficiency. Students were introduced to Big-O notation, analyzing time and space complexities. Practical sessions focused on Python lists, dynamic array behavior, slicing operations, and built-in sequence operations.



- **Days 3–4: Stacks, Queues, and Recursion**

The second module covered linear data structures following LIFO and FIFO models. Students implemented Stacks and Queues using Python lists and the `collections.deque` module. Recursive algorithms were introduced, emphasizing call stack mechanics and converting recursive logic to iterative solutions.

- **Days 5–6: Linked Lists and Hash Tables (Dictionaries)**

Students explored custom pointer-based data structures by implementing Singly and Doubly Linked Lists from scratch. The sessions then covered Hash Tables, Python dictionary internals, collision resolution techniques, and set operations for fast $O(1)$ lookups.

- **Days 7–8: Binary Trees, BSTs, and Heaps**

The program transitioned into non-linear data structures. Participants learned tree traversals (In-order, Pre-order, Post-order, Level-order) and implemented Binary Search Trees (BSTs). Priority queues and Heap algorithms (`heapq` module) were demonstrated for real-world applications like task scheduling.

- **Days 9–10: Graph Algorithms and Technical Practice**

The final days concentrated on Graph representations (Adjacency Matrix and List) along with traversal algorithms like Breadth-First Search (BFS) and Depth-First Search (DFS). The workshop concluded with a hands-on coding assessment and mock technical interview problem-solving sessions.

Methodologies

The program combined theoretical lectures with hands-on coding sessions in Jupyter Notebooks and VS Code environments. Live debugging demonstrations helped students understand memory allocation and edge cases.



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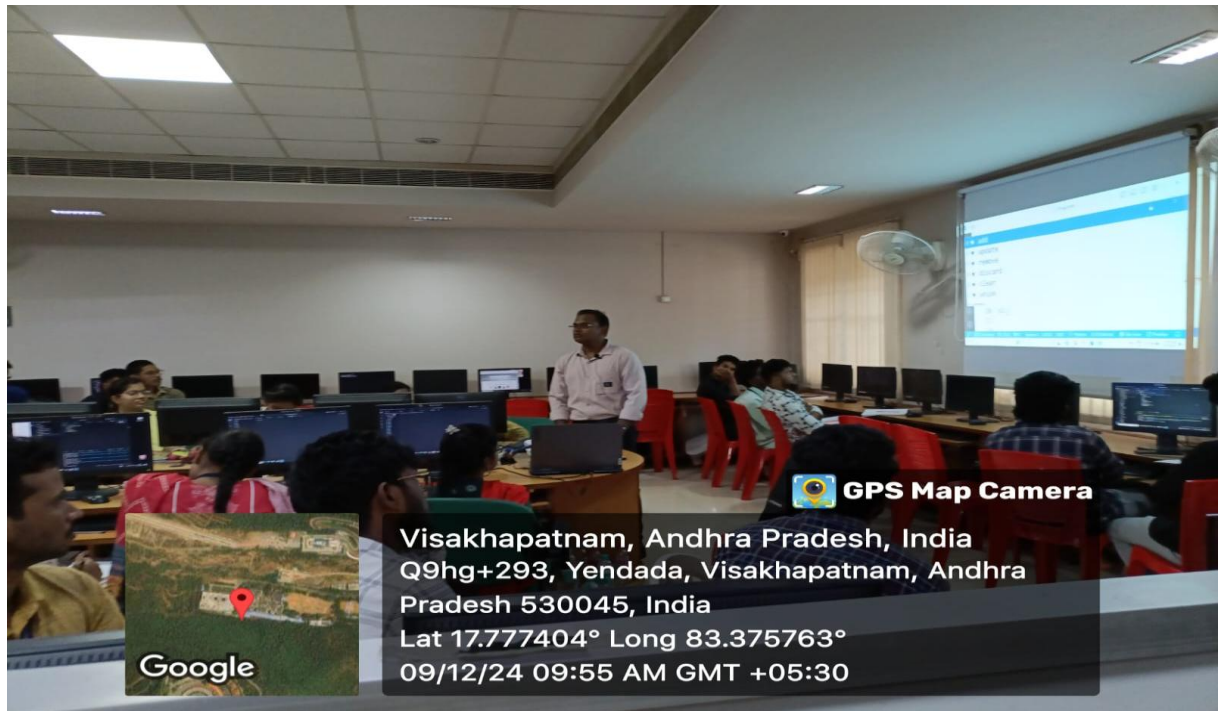
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Training Programs (2024-2026)

Daily coding challenges on platforms like LeetCode/HackerRank encouraged active problem-solving, while peer code reviews promoted clean coding practices.



Instructor Kalla Madhu Explains the Topic through Projector



Instructor Kalla Madhu Assigns a work to the Students



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Training Programs (2024-2026)

Outcomes

Students demonstrated a clear understanding of choosing the right data structure for specific computational problems. Participants gained hands-on confidence in writing custom algorithms from scratch and analyzing code efficiency using Big-O notation. Instructor feedback confirmed that students significantly improved their algorithmic reasoning and technical interview readiness.

Conclusion

The "Data Structures using Python" program successfully achieved its goals of building a strong theoretical and practical foundation in core data structures. By combining conceptual lectures with real-world coding exercises, the program prepared participants to tackle complex programming tasks and technical placement rounds with confidence.

A handwritten signature in blue ink, appearing to read 'I. S. Pallavi'.

Director of MCA

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Department of Computer Applications

Training Programs (2024-2026)

DATE- 30-06-2025

CIRCULAR

It is informed that all the students of MCA 3rd Semester request to attend the training program on **CRP Training** from **31-07-2025** to **14-08-2025** i.e, **15 days** organized by **CRP Training** conducted in the Seminar Hall by Department of Computer Applications, G.V.P. College for Degree and PG Courses(A)


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Department of Computer Applications

Training Programs (2024-2026)

Report on CRP Training

Date of Report: 16-08-2025

Program Title: CRP Training

Duration: 31-07-2025 to 14-08-2025

Faculty Instructors: Deepak,Roshan,Srihitha, Suraj Chawla,Prady

Program Coordinator: B. Divakar

The **CRP Training** Training Program was conducted from 31-07-2025 to 14-08-2025, organized by **Apex Team** Training Institute. The program aimed to equip participants with the fundamental skills and basic knowledge.

Objective

The primary objective of the CRP (Campus Recruitment Preparation) Training program was to thoroughly equip final-year students with the aptitude, domain-specific technical mastery, soft skills, and interview tactics required to clear competitive campus recruitment drives. The program aimed to bridge the gap between academic knowledge and industry expectations, building corporate readiness and candidate confidence across multi-stage selection processes.

Program Structure

- **Phase 1 (Days 1–3): Quantitative Aptitude & Logical Reasoning**

Led by Deepak, the initial module focused on high-yield placement aptitude topics, including speed math, data interpretation, probability, and analytical reasoning. Techniques for time management and shortcuts for solving complex numerical puzzles were heavily emphasized.



- **Phase 2 (Days 4–6): Verbal Ability & Written Communication**

Instructed by Roshan, this phase addressed reading comprehension, vocabulary, grammar fundamentals, and business communication. Special focus was given to email etiquette, essay writing for automated screening tests, and verbal reasoning skills required for standard corporate exams.

- **Phase 3 (Days 7–9): Core Technical Concepts & Coding Aptitude**

Facilitated by Suraj Chawla and Prady, this technical segment covered core computer science and engineering concepts, pseudo-coding, data structures, and debugging techniques. Practical problem-solving sessions helped students prepare for technical screening rounds and online coding assessments.

- **Phase 4 (Days 10–12): Group Discussion (GD) & Behavioral Skills**

Under the guidance of Srihitha, students participated in interactive group discussion drills, learning techniques for structuring opinions, body language etiquette, active listening, and conflict resolution during live panel evaluations.

- **Phase 5 (Days 13–14): Mock Technical & HR Interviews**

The final two days were dedicated to simulated one-on-one mock interview sessions conducted by the faculty panel. Students received personalized feedback on resume building, body language, domain knowledge articulation, and handling HR behavioral questions.

Methodologies

The 15-day intensive program utilized a blend of interactive lectures, daily timed practice assessments, mock aptitude tests, group discussions, and realistic mock interview rounds. Real-world corporate assessment patterns were simulated, while peer reviews and instructor feedback enabled students to identify personal skill gaps and iteratively refine their performance.



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Instructor Delivering Lecture to the Students



Students are Actively participating in the Session



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Clarifying Doubts to Students in the Session



Instructor Delivering Lecture to the Students



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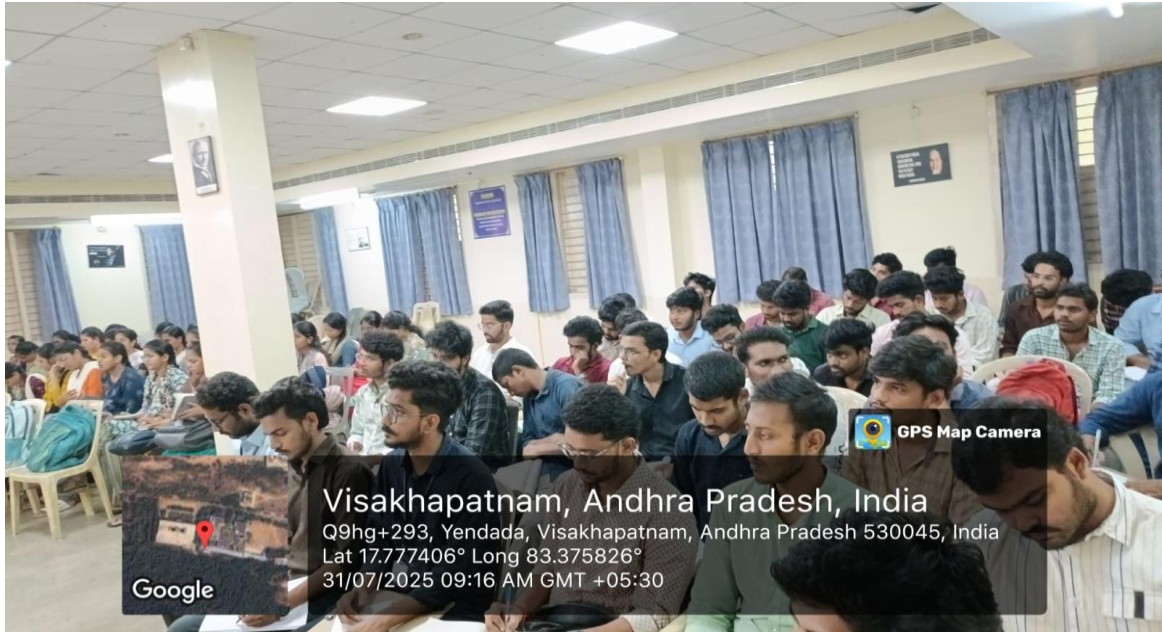
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Students are Actively participating in the Session



Instructor Delivering Lecture to the Students



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Outcomes

Participants reported significant growth in problem-solving speed, technical clarity, and personal confidence. Students demonstrated improved speed in aptitude tests, structured thinking during group discussions, and refined interview responses. Feedback from the faculty panel confirmed that participants moved from passive learners to proactive, placement-ready candidates equipped for upcoming hiring drives.

Conclusion

The CRP Training program successfully met its goal of preparing participants for campus placement challenges. By integrating quantitative, technical, soft skills, and mock interview practice into an intensive two-week schedule, the program successfully boosted overall employability and prepared students to face corporate selection procedures with poise and confidence.

A handwritten signature in blue ink, appearing to read 'I. S. Pallavi'.

Director of MCA

Prof. I. S. Pallavi

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Training Programs (2024-2026)

DATE- 19-11-2025

CIRCULAR

It is informed that all the students of MCA 3rd Semester request to attend the training program on **CRT Training** from **20-11-2025** to **22-11-2025** i.e, **3 days** organized by **CRT Training** conducted in the Seminar Hall by Department of Computer Applications, G.V.P. College for Degree and PG Courses(A)


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Department of Computer Applications

Training Programs (2024-2026)

Report on CRT Training(Soft Skills)

Date of Report: 25-11-2025

Program Title: CRT Training

Duration: 20-11-2025 to 22-11-2025

Faculty Instructors: Mrs. Chetana Harika Oruganti

Program Coordinator: B. Divakar

The **CRT Training** Training Program was conducted from 20-11-2025 to 22-11-2025, organized by **Chethana** Training Institute. The program aimed to equip participants with the fundamental skills and basic knowledge.

Objective

The main objective of the Campus Recruitment Training (CRT) Soft Skills module was to refine students' interpersonal abilities, professional conduct, and communication strategies specifically tailored for corporate selection processes. The program aimed to instill self-confidence, enhance non-verbal communication, and prepare participants to present themselves effectively during competitive campus drives.

Program Structure

- **Day 1: Professional Communication & Body Language**

The training opened with a focus on core verbal and non-verbal communication skills. Mrs. Chetana Harika Oruganti guided students on active listening, tone modulation, eye contact, and professional body language. The session underscored how first impressions and non-verbal cues influence interviewers during placement evaluations.

- **Day 2: Corporate Etiquette & Emotional Intelligence**



The second day centered on workplace norms, professional attire, punctuality, and business communication etiquette. Emotional Intelligence (EQ) was introduced as a vital tool for stress management, adaptability, and handling high-pressure interview scenarios and workplace interactions.

- **Day 3: Public Speaking, Articulation & Mock Practice**

The final day focused on public speaking techniques, structuring thought processes on the spot, and expressive articulation. Interactive exercises and brief mock presentations allowed students to practice structured answers, boost their confidence, and receive direct performance feedback.

Methodologies

The three-day program employed interactive lectures, practical role-playing exercises, real-time feedback loops, and open group discussions. Practical examples of corporate expectations were integrated throughout, encouraging students to actively participate, overcome stage fear, and learn collaboratively through peer observation.



Mrs. Chetana Harika Oruganti delivering a lecture to students



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Training Programs (2024-2026)



Mrs. Chetana Harika Oruganti delivering a lecture to students



Associate professor P Venkata Rao Sir collecting attendance Report after the Session



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Training Programs (2024-2026)

Outcomes

Students demonstrated noticeable improvements in articulate self-expression, professional presence, and interview readiness. Participants reported heightened self-confidence, a better understanding of corporate behavior expectations, and clearer strategies for managing nervous energy during public speaking and interview rounds.

Conclusion

The CRT Training (Soft Skills) program successfully fulfilled its core objectives of polishing participants' professional demeanor and soft skills. Under the expert guidance of Mrs. Chetana Harika Oruganti, students gained valuable insights and practical skills that will significantly boost their performance in upcoming campus placement drives.

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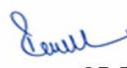
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Training Programs (2024-2026)

DATE- 26-12-2025

CIRCULAR

It is informed that all the students of MCA 3rd Semester request to attend the training program on **IoT Training** from **29-12-2025** to **07-01-2026** i.e, **10 days** organized by **IoT Training** conducted in the Seminar Hall by Department of Computer Applications, G.V.P. College for Degree and PG Courses(A)


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Department of Computer Applications

Training Programs (2024-2026)

Report on IoT Training

Date of Report: 08-1-2026

Program Title: IoT Training

Duration: 29-12-2025 to 07-01-2026

Faculty Instructors: V.Bappuji

Program Coordinator: B. Divakar

The **IoT Training** Training Program was conducted from 29-12-2025 to 07-01-2026, organized by **Appleton Innovations** Training Institute. The program aimed to equip participants with the fundamental skills and basic knowledge.

Objective

The primary objective of the IoT (Internet of Things) Training program was to provide students with comprehensive hands-on exposure to embedded systems, sensor integration, and cloud connectivity. The program aimed to bridge hardware-software interactions, enabling participants to design, build, and deploy smart connected applications for real-world automation and industrial IoT uses.

Program Structure

- **Days 1–2: Introduction to IoT Architecture & Microcontrollers**

The training began with an overview of IoT system architecture, sensor-actuator networks, and hardware platforms. Mr. V. Bappuji introduced microcontrollers (ESP32/Raspberry Pi/Arduino), pin configurations, and environment setups for programming embedded hardware.



- **Days 3–4: Sensors, Actuators & Hardware Interfacing**

Participants learned to interface analog and digital sensors (temperature, humidity, ultrasonic, motion) and actuators (relays, motors) with microcontroller development boards. Hands-on exercises focused on reading sensor data and executing hardware controls.

- **Days 5–6: Communication Protocols & Wireless Networking**

This module covered essential IoT communication standards, including Wi-Fi, Bluetooth/BLE, MQTT, and HTTP protocols. Students implemented light-weight pub/sub messaging models to transmit telemetry data efficiently over wireless networks.

- **Days 7–8: Cloud Integration & IoT Dashboards**

Students integrated hardware devices with IoT cloud platforms (such as ThingsBoard/Blynk/AWS IoT). The sessions enabled participants to visualize real-time sensor streams, set up automated alert triggers, and build interactive remote control dashboards.

- **Days 9–10: Capstone Project & Deployment**

The final days were dedicated to mini-project implementations, such as smart home automation systems, weather monitoring nodes, and automated energy meters. The workshop concluded with project demonstrations and technical feedback from the instructor.

Methodologies

The program followed a practical, lab-oriented approach combining theoretical concepts with direct hardware experimentation. Students worked in small teams using physical IoT kits, microcontrollers, and cloud services. Live troubleshooting, circuit debugging, and peer collaboration were emphasized to reinforce practical engineering concepts.



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Department of Computer Applications

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V.Bappuji delivering lecture to students





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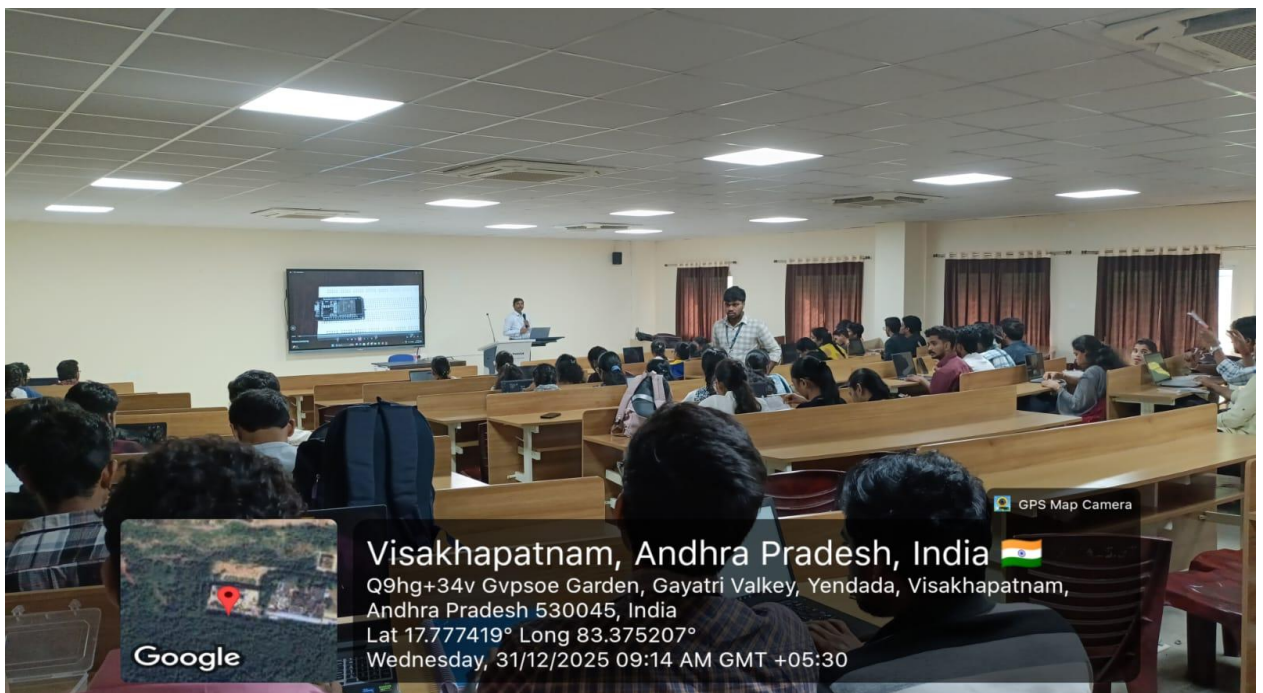
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Training Programs (2024-2026)

Students are actively participating in the Program





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Training Programs (2024-2026)

Outcomes

Students gained strong practical confidence in circuit building, microcontroller programming, and cloud dashboard design. Participants successfully built functional IoT prototypes and demonstrated a clear understanding of end-to-end connected systems. Faculty feedback confirmed that students significantly enhanced their hardware-software integration skills for technical interviews and engineering projects.

Conclusion

The IoT Training program successfully accomplished its objective of equipping students with fundamental and applied skills in Internet of Things technology. Guided by Mr. V. Bappuji, the workshop fostered innovation and problem-solving capabilities, leaving participants well-prepared to develop smart technology solutions for academic and industrial applications.

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Director of MCA

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Training Programs (2024-2026)

DATE- 20-01-2026

CIRCULAR

It is informed that all the students of MCA 3rd Semester request to attend the training program on **cyber security** from **21-01-2026** to **28-01-2026** i.e, **8 days** organized by **cyber security** conducted in the Seminar Hall by Department of Computer Applications, G.V.P. College for Degree and PG Courses(A)


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Department of Computer Applications

Training Programs (2024-2026)

Report on cyber security

Date of Report: 29-01-2026

Program Title: cyber security

Duration: 21-01-2026 to 28-01-2026

Faculty Instructors: Ravi

Program Coordinator: B. Divakar

The **cyber security** Training Program was conducted from 21-01-2026 to 28-01-2026, organized by **cyberthreya** Training Institute. The program aimed to equip participants with the fundamental skills and basic knowledge.

Objective

The primary objective of the Cybersecurity program was to provide students with a solid foundation in network security, ethical hacking methodologies, and threat mitigation strategies. The program aimed to develop practical defense mechanisms, help students recognize system vulnerabilities, and build the technical expertise required for roles in cybersecurity, information security auditing, and secure system administration.

Program Structure

- **Days 1–2: Fundamentals of Cybersecurity & Network Protocols**

The training initiated with an introduction to security paradigms, the CIA Triad (Confidentiality, Integrity, Availability), and threat landscapes. Instructor Ravi covered fundamental networking concepts, OSI model security layers, IP addressing, and packet analysis techniques.

- **Days 3–4: Cryptography & System Vulnerability Assessment**

Participants explored cryptographic mechanisms, including symmetric/asymmetric encryption, hashing algorithms, and digital signatures.



Practical exercises introduced students to vulnerability scanners and system reconnaissance tools to identify potential entry points in networked environments.

- **Days 5–6: Web Application Security & Common Exploits**

This module focused on identifying and mitigating critical web security risks, including OWASP Top 10 vulnerabilities like SQL Injection (SQLi), Cross-Site Scripting (XSS), and Broken Authentication. Students learned how attack vectors operate and implemented secure coding practices to remediate them.

- **Days 7–8: Defensive Security, Incident Response & Practical Evaluation**

The final days covered firewalls, Intrusion Detection/Prevention Systems (IDS/IPS), log analysis, and basic incident handling strategies. The program concluded with a hands-on Capture The Flag (CTF) simulation, allowing students to apply defensive and analytical skills in realistic scenarios.

Methodologies

The program incorporated a hybrid approach of interactive lectures and hands-on lab experiments in virtualized sandboxes. Guided security tools demonstrations, real-world attack/defense case studies, and practical lab exercises ensured students learned how to identify, analyze, and secure systems safely and ethically.



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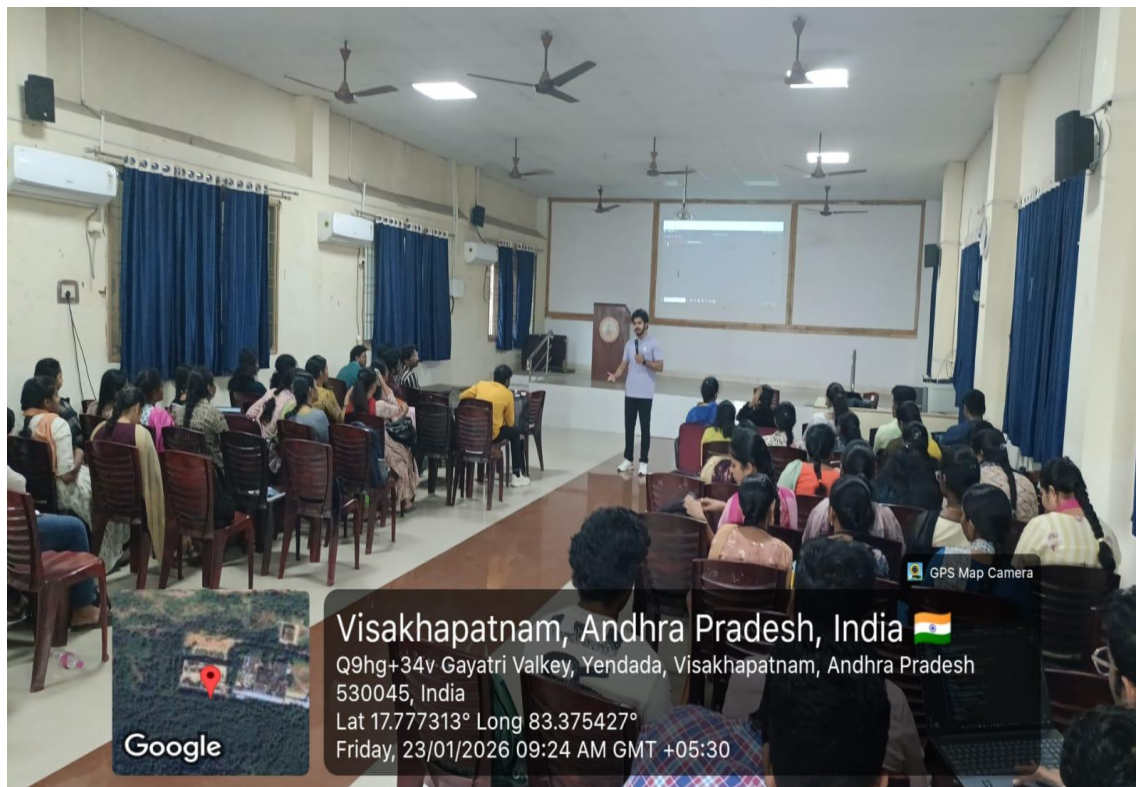
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Training Programs (2024-2026)



Instructor from Cyberthreya delivering Lecture to the students



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Training Programs (2024-2026)



Prof I.S Pallavi Madam distributing Prizes for Winners of Various Activities in the Program



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Prof I.S Pallavi Madam distributing Prizes for Winners of Various Activities in the Program

Outcomes

Students achieved a clear understanding of modern security architecture, threat vectors, and mitigation techniques. Participants demonstrated practical



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Training Programs (2024-2026)

capability in using vulnerability assessment tools and protecting web applications from common exploits. Instructor feedback highlighted marked improvement in students' security-first mindset and technical readiness for industry certifications and roles.

Conclusion

The Cybersecurity training program successfully met its goal of equipping participants with critical skills in digital defense and threat management. Guided by Mr. Ravi, the practical and hands-on nature of the course empowered students to navigate contemporary security challenges and pursue specialized careers in information technology and security.

A handwritten signature in blue ink, appearing to read 'I. S. Pallavi'.

Director of MCA

Prof. I. S. Pallavi

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Department of Computer Applications

Training Programs (2024-2026)

DATE- 19-03-2026

CIRCULAR

It is informed that all the students of MCA 3rd Semester request to attend the training program on **Machine Learning** from **23-03-2026** to **31-03-2026** i.e, **9 days** organized by **Machine Learning** conducted in the Seminar Hall by Department of Computer Applications, G.V.P. College for Degree and PG Courses(A)


Director of MCA

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Department of Computer Applications

Training Programs (2024-2026)

Report on Machine Learning

Date of Report: 1-4-2026

Program Title: Machine Learning

Duration: 23-03-2026 to 31-03-2026

Faculty Instructors: N Venkata Reddy

Program Coordinator: B. Divakar

The **Machine Learning** Training Program was conducted from 23-03-2026 to 31-03-2026, organized by **teckybot** Training Institute. The program aimed to equip participants with the fundamental skills and basic knowledge.

Objective

The primary objective of the Machine Learning Algorithms training program was to provide students with a strong mathematical foundation and practical implementation skills in core machine learning techniques. The program focused on understanding supervised and unsupervised learning models, feature engineering, and model evaluation to prepare participants for data science roles, technical assessments, and intelligent software development.

Program Structure

- **Days 1–2: Foundations of Data Preprocessing & Exploratory Data Analysis (EDA)**

The training commenced with data cleaning, feature scaling, encoding categorical variables, and handling missing values using Python libraries like NumPy, Pandas, and Matplotlib. Instructor N. Venkata Reddy emphasized the critical role of data preparation in model performance.

- **Days 3–4: Supervised Learning – Regression Algorithms**



Participants explored linear model architectures, delving into Linear Regression, Multiple Regression, and Polynomial Regression. Concepts of gradient descent, cost functions, overfitting, and regularization techniques (Lasso and Ridge) were demonstrated hands-on.

- **Days 5–6: Supervised Learning – Classification Algorithms**

This module covered classification models including Logistic Regression, Decision Trees, Random Forests, Support Vector Machines (SVM), and k -Nearest Neighbors (k -NN). Students evaluated model accuracy using confusion matrices, precision, recall, and ROC-AUC metrics.

- **Days 7–8: Unsupervised Learning & Dimensionality Reduction**

Students were introduced to pattern discovery techniques through k -Means Clustering and Hierarchical Clustering. The sessions also covered Principal Component Analysis (PCA) for feature selection and high-dimensional data reduction.

- **Days 9–10: Model Tuning, Deployment Foundations & Capstone Assessment**

The final days focused on Hyperparameter Optimization using GridSearchCV and RandomizedSearchCV. The program concluded with a practical mini-project where students built, evaluated, and presented end-to-end machine learning pipelines using scikit-learn.

Methodologies

The program adopted a practical, notebook-driven learning approach utilizing Google Colab and Jupyter Notebook environments. Theoretical lectures were coupled with live coding sessions, enabling students to implement algorithms from scratch as well as through standard machine learning libraries.



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Real-world datasets from platforms like Kaggle were used for case studies and daily assignments.



N Venkata Reddy delivering Lecture to the Students



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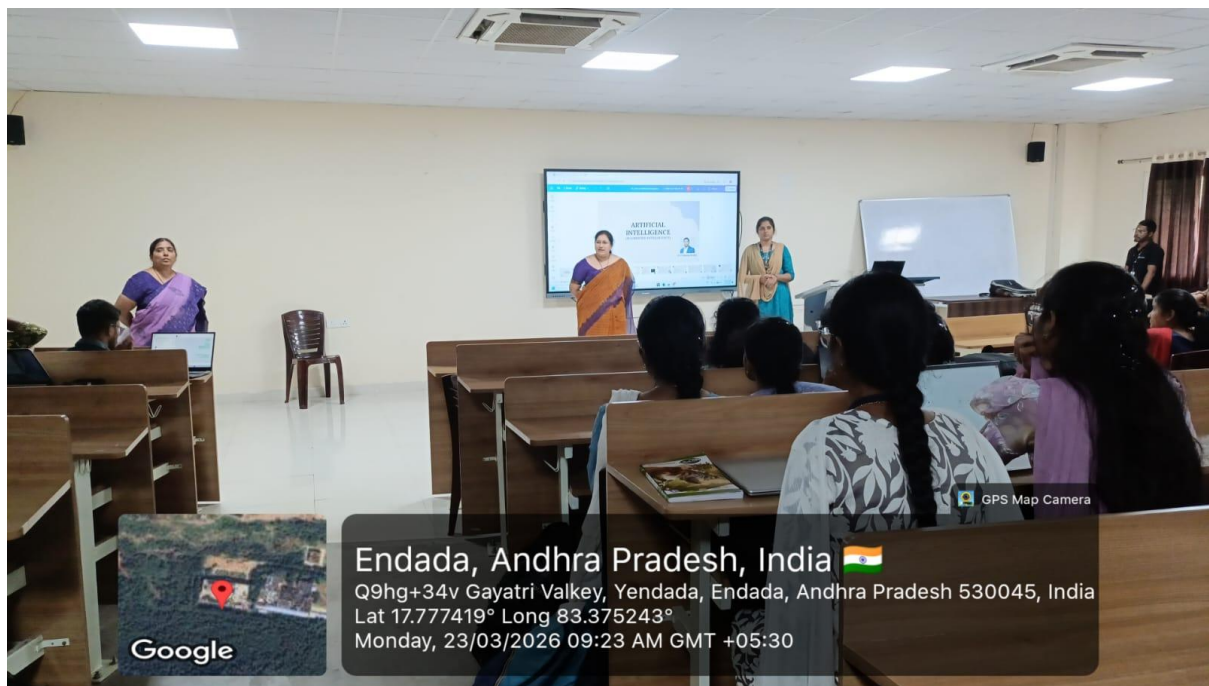
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Department of Computer Applications

Training Programs (2024-2026)



Prof. I.S Pallavi inguring the training program and explain the importance of the Program



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Students are actively participating in the Program



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Outcomes

Students gained hands-on confidence in selecting, training, and tuning appropriate machine learning models for diverse data problems. Participants demonstrated strong clarity in evaluating model performance metrics and mitigating bias/variance issues. Faculty feedback confirmed that students significantly enhanced their data science problem-solving capabilities and technical interview readiness.

Conclusion

The "Machine Learning Algorithms" program successfully achieved its objective of building a comprehensive understanding of core statistical and predictive modeling concepts. Under the guidance of Mr. N. Venkata Reddy, participants acquired the technical foundation and practical experience needed to solve complex data-driven challenges in academic and industry settings.

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Director of MCA

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Department of Computer Applications

Training Programs (2024-2026)

DATE- 17-04-2026

CIRCULAR

It is informed that all the students of MCA 3rd Semester request to attend the training program on **Robotics Training** from **20-04-2026** to **22-04-2026** i.e, **2 days** organized by **Robotics Training** conducted in the Seminar Hall by Department of Computer Applications, G.V.P. College for Degree and PG Courses(A)


Director of MCA

Prof. I. S. Pallavi

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Report on Robotics Training

Date of Report: 23-04-2026

Program Title: Robotics Training

Duration: 20-04-2026 to 22-04-2026

Faculty Instructors: N Venkata Reddy

Program Coordinator: B. Divakar

The **Robotics Training** Training Program was conducted from 20-04-2026 to 22-04-2026, organized by **teckybot** Training Institute. The program aimed to equip participants with the fundamental skills and basic knowledge.

Objective

The primary objective of the Robotics Training program was to introduce students to the fundamentals of robotics engineering, automation, and embedded systems control. The workshop aimed to combine theoretical principles of kinematics and sensor integration with practical hands-on experience, enabling participants to design, program, and control autonomous mechanical systems.

Program Structure

- **Day 1: Introduction to Robotics, Controllers & Kinematics**

The training opened with an overview of robotics architecture, motor drivers, and microcontroller platforms. Instructor N. Venkata Reddy guided students through basic kinematics, mechanical linkages, and programming microcontrollers to interface with actuators and power management modules.

- **Day 2: Sensor Integration, Actuators & Autonomous Control**



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Training Programs (2024-2026)

The second day focused on equipping robotic systems with perception. Participants worked with various sensors (ultrasonic, IR, wheel encoders, and IMUs) to read environmental data. Students implemented feedback loops and closed-loop motor control to achieve precise motion and obstacle detection.

- **Day 3: Navigation Logic, Robot Assembly & Practical Demonstration**

The final day concentrated on assembling complete robotic platforms, such as line-following and obstacle-avoidance rovers. Students implemented navigation logic, tested their autonomous routines on physical tracks, and refined their code based on real-time hardware testing and troubleshooting.

Methodologies

The three-day intensive workshop utilized a practical, hands-on methodology in a lab environment. Students worked in small teams using hardware kits, breadboards, motor drivers, and development boards. Theoretical concepts were immediately followed by circuit assembly and algorithm coding, encouraging trial-and-error learning and active problem-solving.



N Venkata Reddy delivering Lecture to the Students



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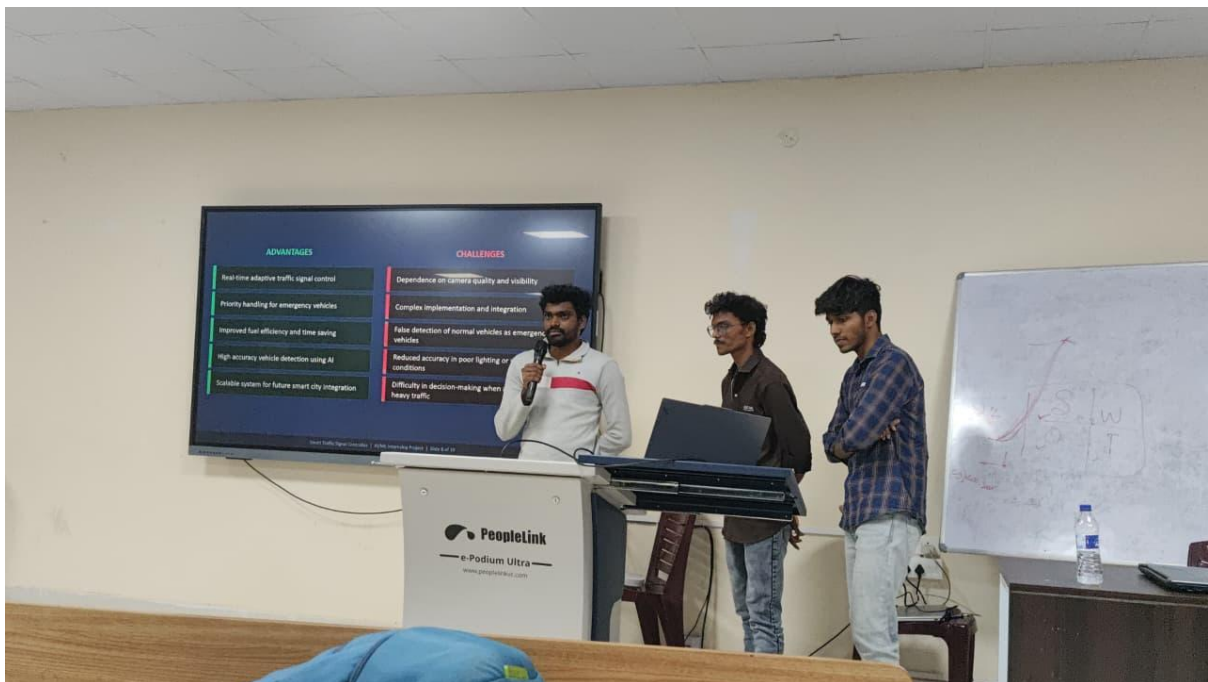
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Training Programs (2024-2026)



Students Presenting their Project Work ppt during the session

Outcomes

Students gained strong practical confidence in hardware interfacing, motor control, and sensor data acquisition. Participants successfully assembled



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Training Programs (2024-2026)

and programmed functional autonomous robotic prototypes. Faculty feedback highlighted that students developed an excellent understanding of how mechanical components, electronic circuits, and control algorithms interact in real-world automation.

Conclusion

The Robotics Training program successfully fulfilled its core goal of providing students with foundational and applied skills in robotics. Guided by Mr. N. Venkata Reddy, the program fostered technical creativity and hardware debugging skills, leaving participants well-prepared to pursue advanced projects and career paths in robotics, mechatronics, and automation.

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