

Student Development Programs (SDP's)

SDP 1: Competitive Programming

Date of Conduction: 1st to 3rd May 2026

Objectives:

- To develop strong problem-solving skills using programming techniques.
- To build a solid foundation in core data structures such as arrays, linked lists, stacks, queues, trees, and graphs.
- To introduce important algorithmic paradigms including divide and conquer, greedy methods, and dynamic programming.
- To enhance coding efficiency and logical reasoning through hands-on practice.
- To familiarize students with competitive programming environments and coding platforms.
- To improve time and space complexity analysis skills.

Description of the Activity:

This student development programme on Competitive Programming is designed to enhance students' problem-solving abilities through structured learning of fundamental and advanced programming concepts. The programme covers essential topics such as Arrays and Strings, Linked Lists, Stacks, Queues, Trees, Graphs, Searching and Sorting, along with important algorithmic paradigms like Divide and Conquer, Greedy Algorithms, Dynamic Programming, and Bit Manipulation. Emphasis is placed on logical thinking, efficient coding practices, and real-time problem-solving. Through hands-on sessions and coding challenges, students will learn to approach complex problems systematically and optimize their solutions for performance, preparing them for coding competitions and technical interviews.

Number of participants: 65

Outcomes:

- Students are able to solve programming problems using appropriate data structures and algorithms.
- Participants gained proficiency in writing optimized and efficient code.
- Students improved their logical thinking and analytical abilities.
- Participants are prepared for competitive coding contests and technical interviews.
- Students understood different algorithmic approaches and their trade-offs.
- Increased confidence in tackling real-world and complex programming challenges.

Budget sanctioned: Rs. 48,400.00

Photographs:

B.V.V. Sangha's
BASAVESHWAR ENGINEERING COLLEGE BAGALKOTE - 587102
Department of Artificial Intelligence & Machine Learning
In association with Internal Quality Assurance Cell (IQAC)
Organizes
THREE DAYS STUDENT DEVELOPMENT PROGRAMME
On
COMPETITIVE PROGRAMMING
By
Mr. Deepak Mehta
Placement and Programming Trainer HAEGL Technologies Pvt.,
Hubballi - 580031
Venue : AIML Laboratory
Date : 1st May 2026 to 3rd May 2026 Time : 9 AM to 5 PM

Prof. Anita G. Kori & Prof. Laxmi M. Muttappanavar Coordinators	Dr. Bharati Reshmi HOD	Dr. Mahabaleswar S. K. Dean (R&D)	Dr. B. R. Hiremath Principal	Dr. R. N. Herkal DTE, BVVS, BCK
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SDP 2: Technical Project Report writing using AI Tools for 1st years

Date of Conduction: 12th April 2026

Objectives:

- To introduce students to the structure of a technical project report.
- To demonstrate how AI tools can assist in drafting and improving report content.
- To guide students in writing clear, structured, and professional documentation.
- To promote ethical and responsible use of AI in academic writing.

Description of the Activity:

This one-day workshop focuses on Technical Project Report Writing using AI tools. It guides students through essential report sections such as abstract, introduction, literature survey, methodology, results, and references. The session demonstrates how AI tools can assist in drafting, structuring, formatting, and improving technical content ethically and effectively. By the end of the workshop, students will gain confidence in preparing structured, plagiarism-free, and professional project reports.

Number of participants: 65

Outcomes:

- Students understood the complete structure of a technical project report.
- Students are now able to use AI tools effectively for drafting and formatting reports
- Students improved clarity, organization, and presentation of technical content.
- Students gained confidence in preparing plagiarism-free and professional reports.

Budget sanctioned: Rs. 20,000.00

Photographs:



BEC-IQAC
Bureau of Educational Quality Assurance Cell

B.V.V. Sangha's
BASAVESHWAR ENGINEERING COLLEGE BAGALKOTE - 587102

Department of Artificial Intelligence & Machine Learning
In association with Internal Quality Assurance Cell (IQAC)
Organizes

ONE DAY STUDENT DEVELOPMENT PROGRAM
On
“TECHNICAL PROJECT REPORT WRITING USING AI TOOLS”
By Prof. Anvesh Kachi

12th April 2026 (2nd Semester)

Prof Laxmi M. M & Prof. Anita Kori
Coordinators

Dr. Bharati Reshmi
HOD

Dr. Mahabaleshwar S. K.
Dean (R&D)

Dr. B. R. Hiremath
Principal

Dr. R. N. Herkal
DTE, BVVS, BGK





SDP 3: Technical Project Report Writing using AI Tools for 3rd years

Date of Conduction: 11th April 2026

Objectives:

- To introduce students to the structure of a technical project report.
- To demonstrate how AI tools can assist in drafting and improving report content.
- To guide students in writing clear, structured, and professional documentation.
- To promote ethical and responsible use of AI in academic writing.

Description of the Activity:

This one-day workshop focuses on Technical Project Report Writing using AI tools. It guides students through essential report sections such as abstract, introduction, literature survey, methodology, results, and references. The session demonstrates how AI tools can assist in drafting, structuring, formatting, and improving technical content ethically and effectively. By the end of the workshop, students will gain confidence in preparing structured, plagiarism-free, and professional project reports.

Number of participants: 60

Outcomes:

- Student's understood the complete structure of a technical project report.
- Students are now able to use AI tools effectively for drafting and formatting reports
- Students improved clarity, organization, and presentation of technical content.
- Students gained confidence in preparing plagiarism-free and professional reports

Budget sanctioned: Rs. 20,000.00

Photographs:



BEC-IQAC
Bureau of Educational Councils
Internal Quality Assurance Cell

B.V.V. Sangha's
BASAVESHWAR ENGINEERING COLLEGE BAGALKOTE - 587102

Department of Artificial Intelligence & Machine Learning
In association with Internal Quality Assurance Cell (IQAC)
Organizes

ONE DAY STUDENT DEVELOPMENT PROGRAM
On
“TECHNICAL PROJECT REPORT WRITING USING AI TOOLS”
By Prof. Anvesh Kachi

11th April 2026 (6th Semester)

Prof Laxmi M. M & Prof. Anita Kori
Coordinators

Dr. Bharati Reshmi
HOD

Dr. Mahabaleshwar S. K.
Dean (R&D)

Dr. B. R. Hiremath
Principal

Dr. R. N. Herkal
DTE, BVVS, BGK





SDP 4: Introduction to Python

Date of Conduction: 23rd to 27th February 2026

Objectives:

- Understand Python basics, syntax, and program execution.
- Use variables, data types, operators, conditions, and loops to solve problems.
- Perform string handling and apply built-in functions effectively.
- Implement core data structures and write modular programs using functions.
- Handle files and exceptions and develop a mini project using all concepts.

Description of the Activity:

This 40-hour Python Programming Workshop is designed for 2nd-year Artificial Intelligence and Machine Learning (AIML) students. The workshop introduces Python from scratch, focusing on building strong fundamentals, logical thinking, and problem-solving skills essential for AIML. The curriculum covers core programming concepts such as variables, data types, operators, decision-making, loops, functions, data structures, file handling, and exception handling. Emphasis is placed on hands-on practice, real-life examples, and mini projects to enhance understanding and confidence in coding. By the end of the workshop, students will be well-prepared to transition into advanced AIML topics including Machine Learning, Data Science, and AI application development.

Number of participants: 60

Outcomes:

- Strong Python fundamentals
- Logical & analytical thinking
- Confidence in coding
- Ready for ML, NumPy, Pandas, Scikit-Learn
- Mini project experience

Budget sanctioned: Rs. 75,000.00

Photographs:

B.V.V. Sangha's
BASAVESHWAR ENGINEERING COLLEGE BAGALKOTE - 587102
Department of Artificial Intelligence & Machine Learning
In association with Internal Quality Assurance Cell (IQAC)
Organizes
FIVE DAYS STUDENT DEVELOPMENT PROGRAMME
On
INTRODUCTION TO PYTHON
By
Mr. Deepak Mehta
Placement and Programming Trainer HAEGL Technologies Pvt.,
Hubballi - 580031
Venue : AIML Laboratory
Date : 23rd to 27th February 2026 Time : 9 AM to 5 PM

Prof. Lakshmi P. Kolar & Prof. Jayasheela D. K. Coordinators	Dr. Bharati Reshmi HOD	Dr. Mahabaleswar S. K. Dean (R&D)	Dr. B. R. Hiremath Principal	Dr. R. N. Herkal DTE, BVVS, BGK
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SDP 5: Mastering Advanced C Programming: From Pointers to Projects

Date of Conduction: 7th to 9th February 2026

Objectives:

- Strengthen students understanding of **pointers, memory management, and structures**.
- Introduce **system-level programming concepts** for better industry preparedness.
- Train students in **modular programming, debugging, and error handling**.
- Provide hands-on practice through **mini-projects** (file handling, data structures, socket programming).
- Equip students with **skills useful for placements, internships, and research projects**.

Description of the Activity:

C programming is the foundation of computer science and systems programming. While students are introduced to the basics of C in early semesters, they often lack exposure to advanced concepts required for industry, research, and competitive programming.

This Student Development Program (SDP) will bridge that gap by offering structured training on advanced C programming techniques with practical implementations and projects. The program is designed to enhance problem-solving ability, low-level programming knowledge, and readiness for real-world software development.

Number of participants: 62

Outcomes:

- Strengthened understanding of advanced C programming concepts.
- Developed skills in pointers, memory management, and data structures.
- Gained hands-on experience through mini-projects and debugging.
- Enhanced problem-solving and system-level programming skills.
- Improved readiness for placements, internships, and software development careers.

Budget sanctioned: Rs. 59,000.00

Photographs:

B.V.V. Sangha's
BASAVESHWAR ENGINEERING COLLEGE BAGALKOTE - 587102
Department of Artificial Intelligence & Machine Learning
In association with Internal Quality Assurance Cell (IQAC)
Organizes

THREE DAYS STUDENT DEVELOPMENT PROGRAMME
On
**MASTERING ADVANCED C PROGRAMMING:
FROM POINTER TO PROJECTS**
By
Mr. Deepak Mehta
Placement and Programming Trainer HAEGL Technologies Pvt.,
Hubballi - 580031
Venue : AIML Laboratory
Date : 7th February 2025 to 9th February 2025 Time : 9 AM to 5 PM

Dr. Bharati M Reshmi & Prof. Jayasheela D. K. Coordinators	Dr. Bharati Reshmi HOD	Dr. Mahabaleswar S. K. Dean (R&D)	Dr. B. R. Hiremath Principal	Dr. R. N. Herkal DTE, BVVS, BGK
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SDP 6: Statistical Thinking for Engineers Using Excel for Data Driven Decisions

Date of Conduction: 7th to 9th November 2025

Objectives:

To enhance engineering student's understanding of statistical concepts and data analysis by leveraging Microsoft Excel as a practical and accessible computational tool.

Description of the Activity:

This Student Development Program (SDP) on “Statistical Thinking For Engineers Using Excel For Data Driven Decisions” is designed to provide participants with practical knowledge and hands-on experience in data analytics using Excel. The program will cover essential concepts such as data cleaning, data transformation, descriptive statistics, visualization techniques, pivot tables, what-if analysis, and basic dashboard creation.

The SDP aims to bridge the gap between academic learning and industry requirements by equipping students with industry-relevant skills in data analytics.

Number of participants: 62

Outcomes:

- Gained practical knowledge of statistical analysis using Microsoft Excel.
- Developed skills in data visualization and dashboard creation.
- Applied statistical techniques for data-driven decision-making.
- Enhanced problem-solving skills using real-world datasets.
- Understood data ethics and the use of AI tools in engineering analytics.

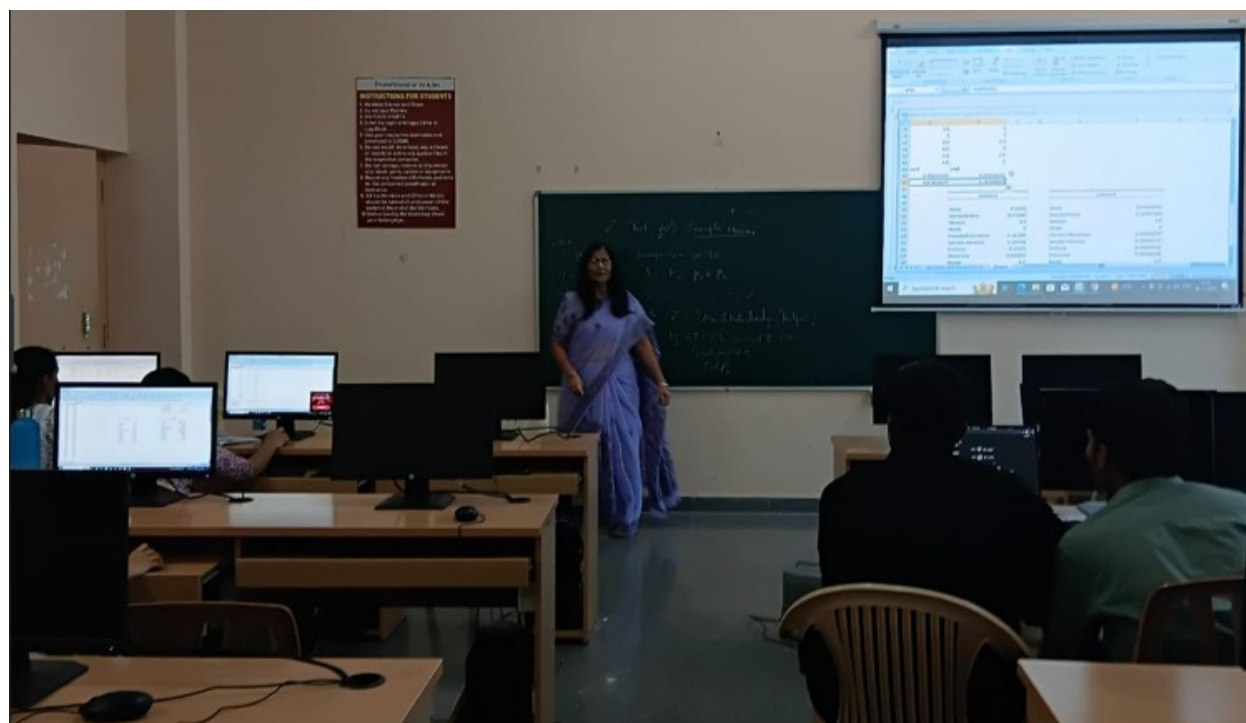
Budget sanctioned: Rs. 65,000.00

Photographs:

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BASAVESHWAR ENGINEERING COLLEGE BAGALKOTE - 587102
Department of Artificial Intelligence & Machine Learning
In association with Internal Quality Assurance Cell (IQAC)
Organizes
THREE DAYS STUDENT DEVELOPMENT PROGRAMME
On
STATISTICAL THINKING FOR ENGINEERS
USING EXCEL FOR DATA DRIVEN DECISIONS
By
Smt. Kavita Kalyandurgmath
Founder and CEO,
KMATH consultancy services, Mumbai .
Venue : AIML Laboratory
Date : 7th November 2025 to 9th November 2025 Time : 9 AM to 5 PM

Dr. Bharati M Reshmi & Prof. Jayasheela D. K. Coordinators	Dr. Bharati Reshmi HOD	Dr. Mahabaleshwar S. K. Dean (R&D)	Dr. B. R. Hiremath Principal	Dr. R. N. Herkal DTE, BVVS, BGK
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SDP 7: Robotic Process Automation

Date of Conduction: 31st October 2025

Objectives:

- Introduce students to RPA fundamentals and its role in AI-driven automation.
- Provide hands-on training with one popular RPA tool (Ui Path).
- Enable students to build a working bot for real-life tasks (data handling, automation, integration).
- Inspire students to explore hyper-automation (RPA + AI/ML) for projects, research, and industry use.

Description of the Activity:

As organizations embrace digital transformation, RPA has become a key enabler of efficiency. For engineers and AI/ML students, RPA acts as a bridge between automation and intelligent systems. It allows students to automate repetitive tasks while integrating with AI models for advanced decision-making.

Number of participants: 62

Outcomes:

- Understood RPA fundamentals and its role in AI/ML-driven automation.
- Able to design and build basic automation bots.
- Appreciated how RPA can integrate with AI to enable intelligent workflows.
- Be motivated to explore certifications and advanced RPA projects.

Budget sanctioned: Rs. 18,000.00

Photographs:

The banner features the AIML logo on the top left and the BEC-IQAC logo on the top right. The central text reads: **B.V.V. Sangha's**
BASAVESHWAR ENGINEERING COLLEGE BAGALKOTE - 587102
Department of Artificial Intelligence & Machine Learning
In association with Internal Quality Assurance Cell (IQAC)
Organizes
ONE DAY STUDENT DEVELOPMENT PROGRAMME
On
ROBOTIC PROCESS AUTOMATION
By
Prof. Bharathi Malakreddy A
Professor (AI&ML) & Head - Research & Consultancy,
BMSIT&M, Bangalore.
Venue : Mechanical CAD Lab
Date : 31th October 2025 Time : 9 AM to 5 PM

At the bottom, a dark blue bar lists the coordinators and organizers: **Prof. Jayasheela D. K. & Prof. Anita G. Kori** (Coordinators), **Dr. Bharati Reshmi** (HOD), **Dr. Mahabaleshwar S. K.** (Dean (R&D)), **Dr. B. R. Hiremath** (Principal), and **Dr. R. N. Herkal** (DTE, BVVS, BGK).





SDP 8: Linux Shell Scripting

Date of Conduction: 18th to 19th and 25th to 26th October 2025

Objectives:

- To design and implement Linux-based utilities for monitoring system resources (CPU, memory, disk, network).
- To develop security auditing scripts for detecting unauthorized access and potential vulnerabilities.
- To implement process automation scripts for common administrative tasks.
- To create a lightweight dashboard (CLI/GUI) to display collected data in real time.
- To enhance user knowledge of Linux system internals, shell scripting, and C/Python programming.

Description of the Activity:

Linux is a widely used open-source operating system in servers, embedded systems, and desktops. Its modularity and flexibility allow developers to design tailored solutions for system monitoring, automation, and security. This project proposes the development of a set of Linux-based tools that enhance performance monitoring, process management, and security auditing for both academic and practical use.

Number of participants: 59

Outcomes:

- A set of customized Linux tools for system performance and security monitoring.
- Increased automation of administrative tasks.
- Documentation and user manual for academic and real-world usage.
- Practical understanding of Linux system calls, scripting, and open-source development.

Budget sanctioned: Rs. 70,000.00

Photographs:

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Department of Artificial Intelligence & Machine Learning
In association with Internal Quality Assurance Cell (IQAC)
Organizes

FOUR DAYS STUDENT DEVELOPMENT PROGRAMME
On

LINUX SHELL SCRIPTING

By
Ms. Swati
Software Engineer - Simpragma Solutions Pvt Ltd, Bangalore

Venue : AIML Department
Date : 18th to 19th & 25th to 26th October 2025 Time : 9 AM to 5 PM

Dr. Bharati M Reshmi & Prof. Jayasheela D. K. Coordinators	Dr. Bharati Reshmi HOD	Dr. Mahabaleshwar S. K. Dean (R&D)	Dr. B. R. Hiremath Principal	Dr. R. N. Herkal DTE, BVVS, BGK
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SDP 9: DevOps Practices and Tools

Date of Conduction: 11th to 12th October 2025

Objectives:

- Introduce DevOps and provide hands-on Git experience
- Understand CI and automate builds with Jenkins
- Explore artifact management and code quality tools
- Introduce cloud computing with AWS and provide a brief Docker overview
- Learn Agile practices and JIRA for project management
- Tie DevOps concepts together

Description of the Activity:

DevOps is a collaborative software development approach that combines development (Dev) and operations (Ops) teams to streamline the software delivery process. DevOps enhances software development and IT operations through automation and efficient processes. Student development programme on “DevOps” aims to help students to learn DevOps basics and advanced concepts, including Git, Ansible, Docker, Puppet, Jenkins, a range of DevOps tools, Azure DevOps, Chef, Nagios, and Kubernetes making them ready to work in industry.

Number of participants: 59

Outcomes:

- Students learned DevOps basics and master Git for code management, a must-have skill for collaboration
- Students gained practical CI experience with Jenkins, widely used for automating software builds
- Students learned to manage artifacts and ensure code quality, critical for professional DevOps workflows
- Students got a high-level understanding of AWS and Docker, foundational technologies in modern DevOps
- Students understood Agile workflows and JIRA, preparing them for team-based DevOps environments
- Students saw the big picture of DevOps in organizations and gain confidence for placements

Budget sanctioned: Rs. 55,000.00

Photographs:



B.V.V. Sangha's
BASAVESHWAR ENGINEERING COLLEGE BAGALKOTE - 587102

Department of Artificial Intelligence & Machine Learning
In association with Internal Quality Assurance Cell (IQAC)

Organizes

TWO DAYS STUDENT DEVELOPMENT PROGRAMME

On

“ DevOps Practices and Tools ”

By

Mr. Rakesh Kulkarni
(Platform Support Manager, Guidewire Software, Bangalore)

Venue : AIML Department

Date : 11th to 12th October, 2025

Time : 9 AM to 5 PM

Prof. L. P. Kolar & Prof. Jayasheel D. K.
Coordinators

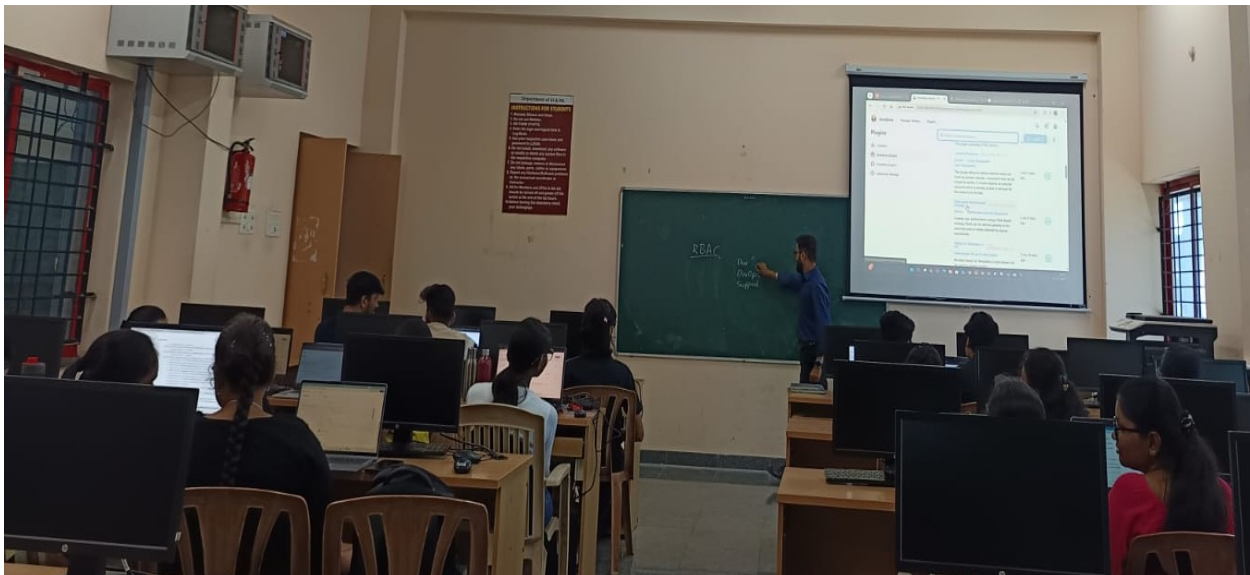
Dr. Bharati Reshmi
HOD

Dr. Mahabaleshwar S. K.
Dean (R&D)

Dr. B. R. Hiremath
Principal

Dr. R. N. Herkal
DTE, BVVS, BGK





SDP 10: Modern Web Framework and Technologies

Date of Conduction: 19th to 21st September 2025

Objectives:

- Understand and apply critical web development languages and tools to create dynamic and responsive web applications.
- To build server-side applications using Node.js and Express
- Develop user interfaces with React.js,
- Manage data using MongoDB, and integrate these technologies to create full stack apps
- Understanding APIs and routing.

Description of the Activity:

This program is designed to provide hands-on training and comprehensive knowledge of the MERN stack, a popular JavaScript-based framework for building dynamic, scalable, and responsive web applications. Students will gain practical experience in designing user interfaces, managing server-side logic, integrating databases, and deploying full-fledged web applications.

The SDP will also foster problem-solving abilities, teamwork, and real-world project implementation. By the end of the program, participants will be able to develop and deploy end-to-end web solutions, aligning with current industry standards and enhancing their employability in the field of software development.

Number of participants: 57

Outcomes:

- Gained knowledge to apply the fundamentals of MongoDB, such as data modelling, CRUD operations, and basic queries to solve given problem.
- How to use constructs of Express.js, including routing, software and constructing RESTful APIs to solve real world problems.
- Developed scalable and efficient RESTful APIs using NodeJS.
- Developed applications using React, including components, state, props, and JSX syntax

Budget sanctioned: Rs. 45,000.00

Photographs:

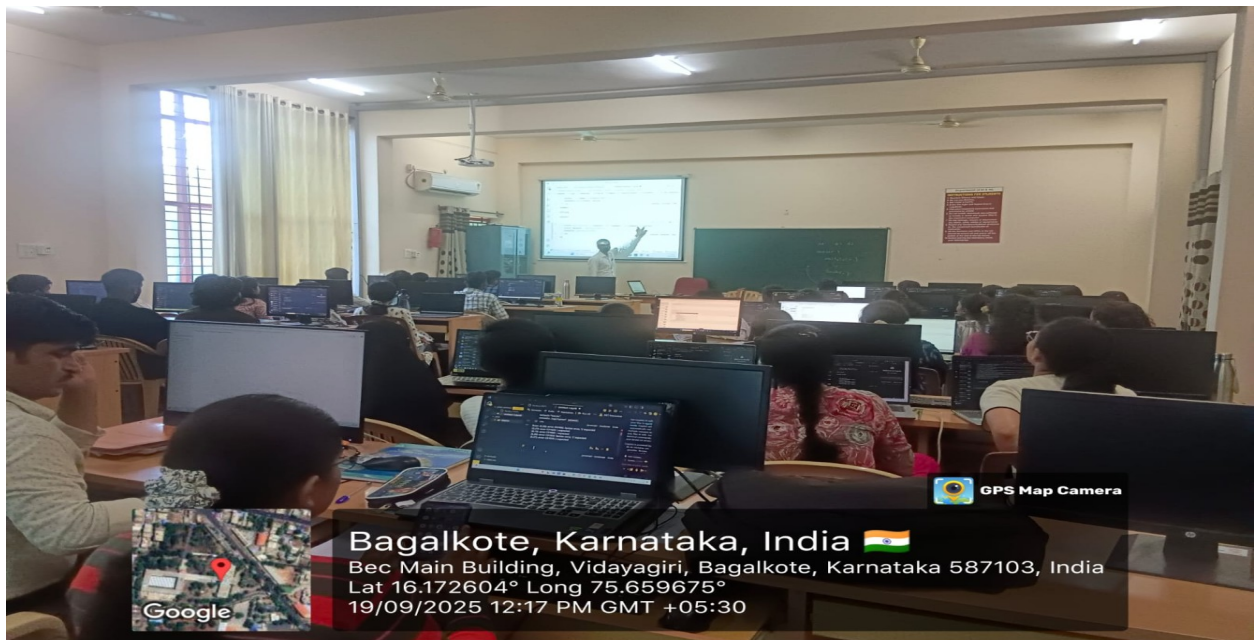
B.V.V. Sangha's
BASAVESHWAR ENGINEERING COLLEGE BAGALKOTE - 587102

Department of Artificial Intelligence & Machine Learning
In association with Internal Quality Assurance Cell (IQAC)
Organizes

THREE DAYS STUDENT DEVELOPMENT PROGRAMME
On
"MODERN WEB FRAMEWORK AND TECHNOLOGIES"
By
Mr. Nagaraj Chakalabbi
19th to 21st Sept, 2025

Prof. Laxmi Muttappanavar & Prof. Anita Kori Coordinators	Dr. Bharati Reshmi HoD	Dr. Mahabaleswar S. K. Dean (R&D)	Dr. B. R. Hiremath Principal	Dr. R. N. Herkal DTE, BVVS, BGK
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SDP 11: Modern SOC Strategies: Leveraging Automation, AI and SIEM for Proactive cyber defense

Date of Conduction: 9th to 10th and 16th to 17th August 2025

Objectives:

- To introduce participants to the structure and functioning of modern SOC's.
- To explore how automation and AI are transforming threat detection and response.
- To demonstrate the role of SIEM tools in centralized threat monitoring.
- To provide hands-on understanding of incident response workflows and automated playbooks.
- To bridge the gap between theoretical cyber security knowledge and real-world SOC practices.

Description of the Activity:

With the ever-evolving threat landscape, traditional security measures are no longer sufficient to protect modern enterprises from sophisticated cyber-attacks. Security Operations Centers (SOCs) must adopt advanced technologies like automation, Artificial Intelligence (AI), and Security Information and Event Management (SIEM) systems to improve threat detection, response, and resilience. This proposal outlines a structured knowledge-sharing and hands-on session on modern SOC strategies to build proactive cyber defense capabilities among students and professionals.

Number of participants: 57

Outcomes:

- Understood statistical concepts using Excel.
- Analyzed and visualized data effectively.
- To apply statistical techniques for decision-making.
- Knowledge of building dashboards and perform predictive analysis.
- Using data analytics to solve engineering problems.
- Understood applying ethical and AI-assisted data analysis practices.

Budget sanctioned: Rs. 45,000.00

Photographs:



B.V.V. Sangha's
BASAVESHWAR ENGINEERING COLLEGE BAGALKOTE - 587102

Department of Artificial Intelligence & Machine Learning
In association with Internal Quality Assurance Cell (IQAC)
Organizes

FOUR DAYS STUDENT DEVELOPMENT PROGRAMME

On

**“Modern SOC Strategies: Leveraging Automation, AI,
and SIEM for Proactive Cyber Defense”**

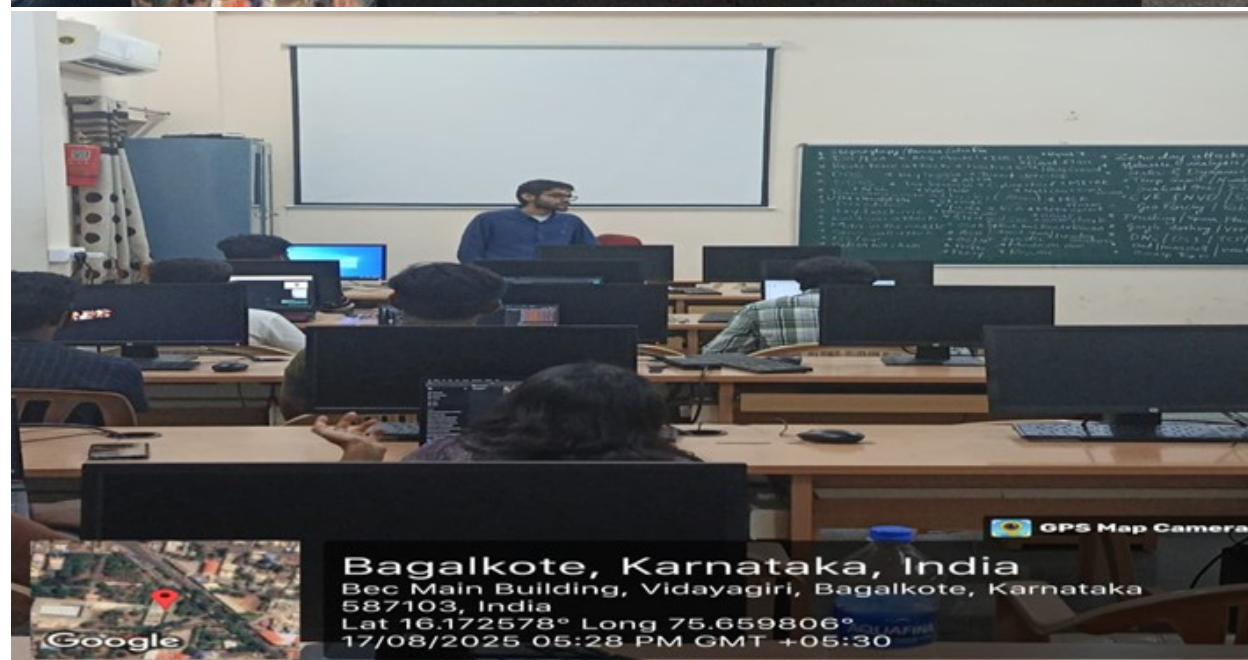
By

Darshit Kothari

9th to 10th August and 16th to 17th August, 2025

Dr. Bharati Reshmi & Prof. Jayasheela D. K. Coordinators	Dr. Anil D. Devanagavi HOD	Dr. Mahabaleswar S. K. Dean (R&D)	Dr. B. R. Hiremath Principal	Dr. R. N. Herkal DTE, BVVS, BGK
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SDP 12: Mastering Data Structures and Algorithms: A pathway to technical excellence

Date of Conduction: 2nd to 4th July 2025

Objectives:

- To develop a deep understanding of core data structures and algorithmic techniques
- To enable participants to write optimized and efficient code
- To prepare students for technical interviews and competitive coding challenges
- To promote analytical thinking and algorithmic problem-solving

Description of the Activity:

Data Structures and Algorithms (DSA) form the backbone of computer science and play a critical role in solving complex computational problems efficiently. Proficiency in DSA is not only essential for academic excellence but also crucial for success in coding interviews, competitive programming, and real-world software development. This SDP is designed to build a strong foundation and sharpen problem-solving skills through interactive, hands-on sessions.

Number of participants: 59

Outcomes:

- Strong command over data structures and algorithmic thinking
- Improved coding interview preparation
- Certificate of Completion
- Motivation for students to participate in interviews, hackathons and coding contests

Budget sanctioned: Rs. 40,000.00

Photographs:

B.V.V. Sangha's
BASAVESHWAR ENGINEERING COLLEGE BAGALKOTE - 587102

Department of Artificial Intelligence & Machine Learning
In association with Internal Quality Assurance Cell (IQAC)

Organizes

THREE DAYS STUDENT DEVELOPMENT PROGRAMME

On

**Mastering Data Structures and Algorithms :
A Pathway to Technical Excellence**

By

Mr. Deepak Mehta

2nd to 4th July, 2025

Dr. Bharti Reshmi & Prof. Jayasheela D. K.
Coordinators

Dr. Anil D. Devanagavi
HOD

Dr. Mahabaleswar S. K.
Dean (R&D)

Dr. B. R. Hiremath
Principal

Dr. R. N. Herkal
DTE, BVVS, BGK





Quality Initiatives

1. ANN Challenge 2026

Date of Conduction: 29th June 2026

Objectives:

- To provide students with a platform to showcase innovation in Artificial Intelligence and Neural Networks.
- To encourage creative problem-solving through real-world AI challenges.
- To enhance teamwork, technical competency, and collaborative learning among students.
- To promote the development of AI-based solutions addressing practical problems.
- To strengthen students' programming, analytical, and presentation skills through a competitive hackathon environment.

Description of the Activity:

The Department of Artificial Intelligence and Machine Learning successfully organized **ANN Challenge 2026 – Internal Hackathon** on 13th–14th March 2026. The hackathon provided an excellent platform for students to demonstrate their innovation, technical expertise, and collaborative skills in the domains of Artificial Intelligence and Artificial Neural Networks. Students worked in teams to identify real-world challenges, design AI-driven solutions, develop functional prototypes, and present their ideas before the evaluation committee. Throughout the event, participants actively engaged in brainstorming, coding, model development, testing, and project presentations, fostering creativity, teamwork, and practical application of AI concepts. The event encouraged experiential learning and motivated students to explore emerging technologies while developing industry-relevant problem-solving skills.

Number of Participants: 50 Students

Outcomes:

- Enhanced students' understanding of Artificial Intelligence and Neural Network applications.
- Improved problem-solving, critical thinking, and analytical abilities.
- Strengthened teamwork, communication, and project management skills.
- Encouraged innovation and the development of practical AI-based solutions.
- Increased students' confidence in presenting technical projects and prototypes.
- Motivated participants to take part in national-level hackathons and innovation competitions.
- Fostered a culture of collaborative learning, creativity, and continuous technological exploration.

Photographs:



2. Code Mate 2.0 – Peer Learning Initiative

Date of Conduction: 10th May 2026

Objectives:

- To bridge the gap between classroom learning and industry requirements.
- To strengthen Linux fundamentals and Shell Programming skills.
- To improve programming, debugging, and logical reasoning abilities.
- To encourage peer learning and collaborative coding.
- To prepare students for placements and competitive programming.

Description of the Activity:

The Department of Artificial Intelligence and Machine Learning organized **Code Mate 2.0**, a structured buddy-based peer learning initiative for first-year students. The sessions were conducted by student mentor **Ms. Saniya M. K.**, covering Linux/Unix basics, Shell Programming, variables, loops, conditional statements, file handling, and hands-on coding

exercises. A written-cum-practical assessment was conducted to evaluate students' conceptual understanding and programming skills.

Number of Participants: 65 Students (Approx.)

Outcomes:

- Improved Linux and Shell Programming skills.
- Enhanced programming and debugging abilities.
- Strengthened logical thinking and problem-solving skills.
- Promoted peer-assisted learning and collaborative coding.
- Increased placement readiness and technical confidence.

Photographs:





3. Code Mate 4.0 – Peer Learning Initiative

Date of Conduction: 9th May 2026

Objectives:

- To strengthen programming and problem-solving skills through peer learning.
- To provide hands-on exposure to Linux, Unix, and Shell Programming.
- To encourage collaborative learning.
- To bridge the gap between academics and industry requirements.
- To develop scripting and automation skills.

Description of the Activity:

The Department of Artificial Intelligence and Machine Learning organized Code Mate 4.0, a structured buddy-based technical learning initiative following a comprehensive roadmap from

Linux Fundamentals to MLOps. Student mentor **Rohan R. D.** conducted sessions on Linux/Unix Basics and Shell Programming through practical demonstrations and hands-on exercises. The initiative strengthened students' technical foundation and encouraged peer-assisted learning.

Number of Participants: 60 Students

Outcomes:

- Practical understanding of Linux operating system.
- Improved Shell Programming skills.
- Enhanced logical thinking and automation skills.
- Promoted peer learning and teamwork.
- Established a strong foundation for Dev Ops and MLOps.

- **Photographs:**



4. Interdisciplinary Project Work on IoT and Embedded Systems

Date of Conduction: 1st–2nd May 2026

Objectives:

- To introduce Internet of Things (IoT) concepts.
- To provide hands-on experience using Arduino.
- To develop embedded programming skills.
- To promote innovation and teamwork.
- To implement real-world IoT applications.

Description of the Activity:

A two-day hands-on workshop was conducted on IoT and Embedded Systems using Arduino Mega and Arduino IDE. Students developed projects including obstacle-avoiding robots, gas monitoring systems, smart irrigation, Android-controlled robots, solar trackers, and electronic notice boards while gaining practical knowledge of sensors and embedded programming.

Number of Participants: 66 Students

Outcomes:

- Developed practical IoT implementation skills.
- Improved embedded programming knowledge.
- Enhanced innovation and teamwork.
- Built real-world automation projects.
- Strengthened problem-solving abilities.

Photographs:



5. TECHTRONIX 2.0 – Technical Fest

Date of Conduction: 2nd – 3rd May 2025

Objectives:

- To enhance technical and analytical skills.
- To encourage innovation and creativity.
- To promote teamwork and entrepreneurship.
- To improve communication and industry readiness.

Description of the Activity:

The Department organized TECHTRONIX 2.0 featuring competitions including Data Rush, Breach Hunt, Prompt Kraft, Output Arena, AlgoBid, and The Founder's Stage. The fest provided students with opportunities to demonstrate technical knowledge, innovation, coding, cybersecurity, AI prompting, and entrepreneurial skills.

Number of Participants: 80+ Students (30 Teams)

Outcomes:

- Improved technical and analytical skills.
- Enhanced innovation and entrepreneurial thinking.
- Strengthened teamwork and leadership.
- Increased confidence in technical competitions.

Budget Sanctioned: ₹34,698.00/-

Photographs:



6. INSIGHTX – Internal Data Science Hackathon

Date of Conduction: 28th February 2026

Objectives:

- To enhance Data Science and AI problem-solving skills.
- To encourage innovation and teamwork.
- To provide real-time hackathon experience.
- To develop analytical thinking and technical presentation skills.

Description of the Activity:

The Department of Artificial Intelligence and Machine Learning organized **INSIGHTX**, a 12-hour Internal Data Science Hackathon where students worked in teams to solve real-world Artificial Intelligence and Data Science problems. Participants analyzed datasets, developed machine learning models, and presented innovative solutions before an expert evaluation panel. The event promoted collaborative learning, creativity, and practical application of AI concepts.

Number of Participants: 72 Students (18 Teams)

Outcomes:

- Improved practical knowledge of Artificial Intelligence and Data Science.
- Enhanced teamwork and collaborative learning.
- Encouraged innovation and analytical thinking.
- Strengthened project presentation and communication skills.

Photographs:



7. Code Mate 6.0 – Your Learning Buddy for AIML Excellence

Date of Conduction: 25th February 2026

Objectives:

- To strengthen Linux and Shell Programming concepts.
- To promote peer-assisted learning.
- To improve practical technical skills.
- To prepare students for DevOps and AI deployment environments.
- To encourage collaborative technical mentoring.

Description of the Activity:

The Department of Artificial Intelligence and Machine Learning organized Code Mate 6.0 for sixth-semester students. The session on Linux and Shell Programming was conducted by student mentor **Sohail I.H.**, covering Linux fundamentals, command-line tools, shell scripting, and practical demonstrations. The programme promoted collaborative learning and industry-oriented technical competencies.

Number of Participants: 60 Students

Outcomes:

- Improved Linux command-line proficiency.
- Enhanced Shell Programming knowledge.
- Strengthened problem-solving skills.
- Promoted peer mentoring.
- Built a foundation for DevOps, Cloud Computing, and MLOps.

Dr. W. W. Sanghvi's
RAJAWADEEVARAN ENGINEERING COLLEGE, RAJALAXMI - DISTRICT
Department of Artificial Intelligence and Machine Learning

Association of Intelligent Manufacturing
Organizes

CodeMate 6.0

→ Your Learning Buddy for AI, ML, & DL

Presented by: Dr. W. W. Sanghvi
Introduction to AI, Python and Deep Learning

Dr. W. W. Sanghvi
Associate Professor, RAJAWADEEVARAN ENGINEERING COLLEGE, RAJALAXMI

Session 1: AI/ML Fundamentals | Session 2: Python for AI/ML

Dr. W. W. Sanghvi
Associate Professor, RAJAWADEEVARAN ENGINEERING COLLEGE, RAJALAXMI



8. Innovation & Design Thinking (IDT) Project Exhibition

Date of Conduction: 17th January 2026

Objectives:

- To encourage experiential and hands-on learning.
- To develop research, problem-solving, and critical-thinking skills.
- To promote teamwork, communication, and presentation skills.
- To foster creativity and innovation.
- To create awareness of IoT-based real-world solutions.

Description of the Activity:

The Department of Artificial Intelligence and Machine Learning organized the Innovation & Design Thinking Project Exhibition for first-year AIML students under the course **1BAIA108P – Innovation and Design Thinking**. Students presented IoT-based projects including Smart Trolley, Home Automation, Smart Attendance, Smart Car Parking, Healthcare Monitoring, IoT IV Bag, Gas Detection, Fleet Management, Greenhouse Monitoring, Waste Segregation, and Covid Booth Automation. The exhibition was inaugurated by the Principal and evaluated by faculty experts.

Number of Participants: 65 Students (11 Teams)

Outcomes:

- Improved practical knowledge of IoT and Embedded Systems.
- Enhanced creativity and innovation.
- Developed teamwork and presentation skills.
- Increased confidence through live demonstrations.
- Encouraged design thinking and real-world problem solving.

Budget Sanctioned: ₹12,000/-

Photographs:



9. Project Exhibition (5th & 7th Semester)

Date of Conduction: 13th & 17th November 2025

Objectives:

- To encourage project-based and experiential learning.
- To promote innovation and practical implementation of AI & ML concepts.
- To enhance teamwork, communication, and presentation skills.
- To motivate students towards research and entrepreneurship.
- To provide a platform for showcasing innovative AI & ML projects.

Description of the Activity:

The Department of Artificial Intelligence and Machine Learning organized the Project Exhibition for 5th and 7th Semester students. Students demonstrated innovative projects in Artificial Intelligence, Machine Learning, Healthcare, Agriculture, Computer Vision, Natural Language Processing, Smart Systems, and Automation. The projects were evaluated based on innovation, technical implementation, presentation skills, and real-world applicability, enabling students to exhibit their practical knowledge and creativity.

Number of Participants: 59 Students (16 Teams)

Outcomes:

- Improved practical implementation skills.
- Enhanced teamwork and communication.
- Encouraged innovation and research orientation.
- Increased confidence in project demonstrations.
- Promoted real-world problem-solving skills.

Budget Sanctioned: ₹15,000/-

Photographs:



10. First release of Department News Letter “AI Chronicles”

Date of Conduction: 7th November 2025

Objectives:

- To document and showcase the academic, research, and extracurricular achievements of the Department of Artificial Intelligence and Machine Learning.
- To highlight students' accomplishments, faculty achievements, and departmental activities in a single publication.
- To promote a culture of innovation, research, and knowledge sharing within the department.
- To provide a platform for publishing updates on Student Development Programs (SDPs), technical events, workshops, hackathons, and other departmental initiatives.
- To encourage effective communication and strengthen the identity and visibility of the AIML department.

Description of the Activity:

The Department of Artificial Intelligence and Machine Learning proudly released the **first edition of the department newsletter, "AI Chronicles"**, on **7th November 2025**. The newsletter serves as an official publication highlighting the department's academic excellence, innovation, and vibrant student activities. The inaugural edition featured a comprehensive collection of departmental events, Student Development Programs (SDPs), technical workshops, hackathons, faculty achievements, student accomplishments, research publications, certifications, and other significant milestones achieved during the academic year.

The newsletter was meticulously compiled under the editorial guidance of **Dr. Bharati M. Reshmi (Editorial Advisor)**, with **Miss. Laxmi M. Muttappanavar (Chief Editor)** leading the editorial process and **Mr. Chinmay R. M. (6th Semester)** serving as the **Student Member** of

the editorial team. Their dedicated efforts ensured the successful documentation of the department's activities in a professional, accurate, and engaging format. The publication reflects the department's commitment to fostering innovation, research, collaboration, and continuous learning while providing students and faculty with a platform to celebrate their achievements and inspire future excellence.

Photographs:



11. INVICTUS 2.0 – Intra Department Sports Competition

Date of Conduction: 29th – 30th Oct 2025

Objectives:

- To encourage physical fitness and sportsmanship among students.
- To strengthen teamwork, leadership, and coordination.
- To provide recreational activities alongside academics.
- To promote healthy competition and student engagement.

Description of the Activity:

The Department of Artificial Intelligence and Machine Learning organized **INVICTUS 2.0**, an intra-department sports competition featuring Cricket, Volleyball, Throw ball, Badminton, Chess, Carrom, and other indoor games. Students enthusiastically participated in both indoor and outdoor sporting events, promoting team spirit, leadership, discipline, and healthy competition while strengthening camaraderie within the department.

Number of Participants: 120 Students

Outcomes:

- Promoted physical fitness and sportsmanship.
- Enhanced teamwork and leadership qualities.
- Increased student participation in extracurricular activities.
- Strengthened interpersonal relationships and departmental unity.

Budget Sanctioned: ₹ 3,225/-

Photographs:

12. ALGORITHM 5.0 – Fresher's Welcome

Date of Conduction: 17th Oct 2025

Objectives:

- To welcome first-year AIML students into the department.
- To familiarize students with departmental facilities, faculty members, curriculum, and academic opportunities.
- To motivate students towards technical learning, innovation, and professional development.
- To promote interaction and bonding between junior and senior students.

Description of the Activity:

The Department of Artificial Intelligence and Machine Learning organized **ALGORITHM 5.0 – Fresher's Welcome** to warmly welcome the newly admitted first-year students. The programme included an introduction to the department, interaction with faculty members, orientation on the curriculum, student association activities, technical roadmap presentation, cultural performances, and interactive games. Senior students shared their academic experiences, technical achievements, certification opportunities, and career guidance, creating a friendly and motivating environment for the newcomers.

Number of Participants: 80–100 Students

Outcomes:

- Students became familiar with the department and its facilities.
- Improved interaction between junior and senior students.
- Enhanced motivation towards technical learning and professional development.
- Fostered a positive, inclusive, and collaborative departmental environment.

Budget Sanctioned: ₹ 33,500/-

Photographs:

13. WAVE 3.0 – National Level Hackathon

Date of Conduction: 13th – 14th March 2026

Objectives:

- To encourage students to develop innovative solutions for real-world challenges.
- To promote creativity, teamwork, and collaborative problem-solving.
- To provide practical exposure to Artificial Intelligence and Machine Learning concepts.
- To enhance technical, analytical, and project development skills through a 24-hour hackathon.
- To foster innovation and interdisciplinary learning among engineering students.

Description of the Activity:

The Department of Artificial Intelligence and Machine Learning, Basaveshwar Engineering College, successfully organized **WAVE 3.0**, a **24-hour National Level Hackathon**, from **13th to 14th March 2026**. The event brought together talented students from various institutions to design and develop innovative solutions addressing real-world problems using Artificial Intelligence and Machine Learning technologies.

The hackathon was organized under the leadership of **Dr. Bharati M. Reshmi**, Head of the Department of Artificial Intelligence and Machine Learning, along with **Dr. Mahabaleshwar S. K.**, Dean (R&D) and Head, Department of Electronics and Communication Engineering, and **Dr. R. L. Naik**, Head, Department of Electrical and Electronics Engineering. The event was efficiently coordinated throughout the 24-hour duration by **Prof. Lakshmi P. Kolur**.

Number of Participants: 80-100Teams

Outcomes:

- Enhanced students' innovation, creativity, and problem-solving abilities.
- Improved teamwork, communication, and project management skills.

- Strengthened practical knowledge in Artificial Intelligence and Machine Learning.
- Encouraged students to develop technology-driven solutions for societal challenges.
- Provided participants with valuable feedback from experts and academicians.
- Promoted collaboration among students from different institutions.

Photographs:





14. Paper Presentation Competition

Date of Conduction: 17th October 2025

Objectives:

- To encourage students to present technical papers on emerging technologies.
- To improve technical communication and presentation skills.
- To develop research aptitude and literature survey skills.
- To promote innovative thinking and analytical ability.
- To build confidence in technical discussions.

Description of the Activity:

The Department of Artificial Intelligence and Machine Learning organized a Paper Presentation Competition for final-year students. Participants presented technical papers in the domains of Artificial Intelligence, Machine Learning, Data Science, Cyber Security, and other emerging technologies. Teams were evaluated based on technical content, presentation quality, communication skills, use of visual aids, response to judges' questions, and teamwork. The competition provided an excellent platform for students to showcase their research abilities and improve their technical presentation skills. Cash prizes were awarded to the best-performing teams.

Number of Participants: 75 Students

Outcomes:

- Enhanced technical presentation and communication skills.
- Improved research aptitude and analytical thinking.
- Encouraged innovation and technical discussions.
- Increased confidence in public speaking.
- Strengthened teamwork and collaboration.

Budget Sanctioned: ₹7,350/-

Photographs:

