
	Akhil Bharatiya Maratha Shikshan Parishad's Anantrao Pawar College of Engineering & Research		
	Record No.: ACA/D/021 Revision: 00	DoI: 01/02/2025	
EVENT REPORT			

Name of Event: 32 Hrs. Student Development Program on "Object-Oriented Programming (OOP) Using Java

Date of Event: 18th August to 24th August 2025

Event Coordinators: Prof. Rajshri Nikam & Prof. Prajakta Khaire

Name of resource Person/ Speaker: Mr. Pravin P. Gaikwad

Brief Introduction of Resource Person/Speaker:

Mr. Pravin P. Gaikwad, a highly enthusiastic and dedicated IT trainer with over 14 years of experience in the field of teaching and training. He is currently serving as a Senior IT Trainer at Giri's TechHub Pvt. Ltd., Pune.

Mr. Gaikwad specializes in .NET technologies and has strong expertise in C, C++, Data Structures, C#, .NET MVC, .NET MVC Core, and Java. Along with technical skills, he is also well-known for preparing students for interviews and guiding them towards industry readiness.



He has successfully designed and delivered numerous training programs for colleges, departments, and individuals, always focusing on simplifying complex concepts into easy-to-understand knowledge. His training approach emphasizes hands-on coding, real-world projects, and industry-oriented learning, while also nurturing essential soft skills to make students job-ready.

Academically, he holds a Master of Computer Applications (MCA) and a Bachelor of Computer Science (B.Sc. CS). With his vast knowledge and passion for teaching, Mr. Gaikwad has empowered countless students to achieve their career goals and excel in the competitive IT industry.

Target Audience with count: 76

Brief Description of Event:

"Student Development Program on Object-Oriented Programming Using Java" was organized by the Department of Information Technology, Akhil Bhartiya Maratha Shikshan Parishad's Anantrao Pawar College of Engineering and Research, Pune, from 18th August 2025 to 24th August 2025 in offline mode. The SDP on "OOP Using Java" commenced with an inaugural session on 18th August 2025 at 10:00 AM, graced by the presence of faculty members, resource persons, and SE IT students. During the inauguration, the objectives of the program were outlined, emphasizing the importance of mastering object-oriented programming concepts and strengthening problem-solving skills using Java.

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The week-long program was conducted over 32 hours comprising a blend of theory and practical sessions. The sessions covered a wide range of topics including Java basics, loops, arrays, classes and objects, polymorphism, constructors, interfaces, abstract classes, and advanced features of Java 8 such as functional interfaces, default and static methods, and marker interfaces.

Throughout the SDP, students actively participated in coding exercises and hands-on practice in the lab, which reinforced their understanding of the theoretical concepts discussed during lectures. The program also included an online assessment test on the final day, ensuring that learning outcomes were evaluated effectively.

Day 1 (18th August 2025):

Time: 10:00 AM - 05:00 PM

Content:

The SDP was inaugurated in the presence of faculty members, resource persons, and students. The session began with an introduction to the objectives of the training: to strengthen Java programming skills and develop a deep understanding of Object-Oriented Programming (OOP). Students were motivated to actively participate throughout the week.

11:15 – 1:15 PM (Theory): Basics of Java

The resource person introduced Java's history, features, JVM, JDK, and JRE. Students were explained how Java ensures platform independence through bytecode execution. The session also covered data types, variables, and operators, with illustrative examples.

2:00 – 3:00 PM (Theory): Control Statements

Conditional statements (if, else-if, switch) and loop constructs (for, while, do-while) were explained with flowcharts. The concept of arrays was introduced, including declaration and initialization.

3:00 – 5:00 PM (Practical): Hands-on Session

Students practiced writing programs using loops and arrays, such as multiplication tables, array summation, and matrix representation. The practical strengthened logic building skills and familiarized students with coding in IDE.

Outcome: Students understood the basics of Java programming and successfully implemented control structures in code.



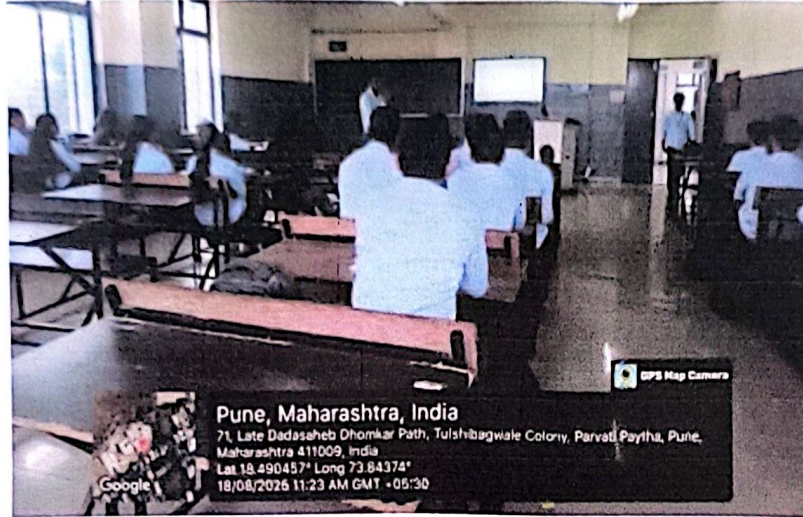
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Day 2 (19th August 2025):

Time: 11:15 AM - 05:00 PM

Content:

11:15 – 1:15 PM (Theory): Array Operations

The session introduced insertion, deletion, and searching in arrays. Enhanced for-each loop was explained for easier traversal.

2:00 – 3:00 PM (Theory): Introduction to OOP

The concept of classes and objects was introduced, focusing on member variables and methods. Object lifecycle and memory allocation were explained.

3:00 – 5:00 PM (Practical): Implementation

Students wrote programs on array operations and implemented a Student class with attributes and methods. They practiced creating and manipulating objects, gaining exposure to encapsulation.

Outcome: Students gained clarity on object creation, method calling, and manipulation of class members, laying the foundation for OOP.



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Day 3 (20th August 2025):

Time: 11:15 AM - 05:00 PM

Content:

11:15 – 1:15 PM (Theory): Polymorphism Concepts

The session covered method overloading (compile-time polymorphism) with examples like multiple add() methods. Next, method overriding (runtime polymorphism) was explained with inheritance-based examples.

2:00 – 3:00 PM (Theory): Dynamic Dispatch

Use of the super keyword was explained, along with dynamic method dispatch—showing how Java resolves overridden methods at runtime.

3:00 – 5:00 PM (Practical): Code Examples

Students implemented programs demonstrating overloading vs overriding, practiced super keyword usage, and built real-world inspired examples like Shape hierarchy (Circle, Rectangle).

Outcome: Students understood how Java achieves runtime flexibility through polymorphism and applied it in coding exercises.



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Day 4 (21st August 2025):

Time: 11:15 AM - 05:00 PM

Content:

11:15 – 1:15 PM (Theory): Constructors

The concept of constructors was explained with examples of default, parameterized, and copy constructors. The difference between method and constructor was clarified. Constructor overloading and the “this” keyword were discussed.

2:00 – 3:00 PM (Theory): Interfaces

The need for interfaces in achieving abstraction and multiple inheritance was introduced. Students learned to define and implement interfaces.

3:00 – 5:00 PM (Practical): Constructor & Interface Programs

Students created programs demonstrating different constructors and implemented interfaces in real-life inspired applications like Bank Accounts and Vehicles.

Outcome: Students gained confidence in using constructors effectively and began applying interfaces in code design.



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Day 5 (22nd August 2025):

Time: 11:15 AM - 05:00 PM

Content:

11:15 – 1:15 PM (Theory): Abstract Classes vs Interfaces

The session clarified the difference between abstract classes and interfaces, explaining when to use each. Concepts of abstraction and partial abstraction were emphasized.

2:00 – 3:00 PM (Theory): Multiple Inheritance via Interfaces

Students learned how Java supports multiple inheritance through interfaces and explored rules related to abstract methods.

3:00 – 5:00 PM (Practical): Abstraction in Action

Students coded programs using abstract classes (e.g., Shape, Employee) and interfaces to solve structured problems.

Outcome: Students could differentiate and correctly implement abstraction techniques in Java.



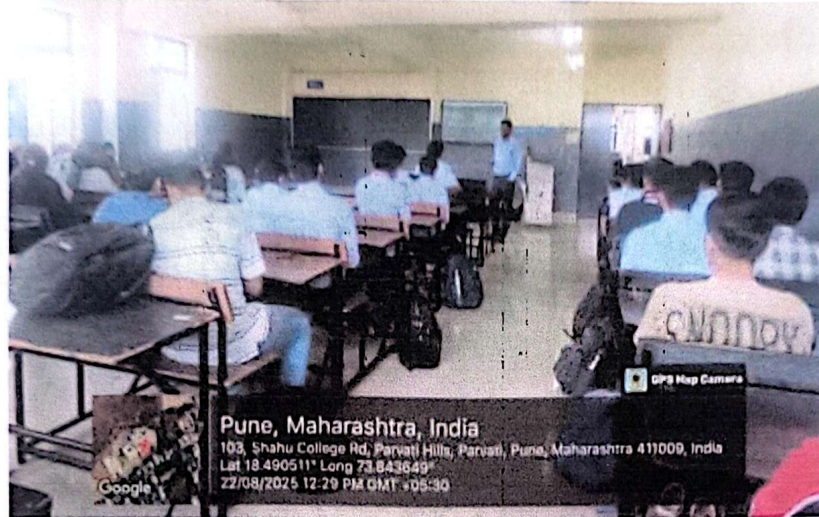
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Day 6 (23rd August 2025):

Time: 09:15 AM - 03:00 PM

Content:

09:15 – 11:15 AM (Theory): Advanced Interfaces (Java 8+)

Functional interfaces were introduced along with their importance in lambda expressions. The concept of `@FunctionalInterface` annotation was explained.



12:00 – 1:00 PM (Theory): Interface Enhancements

Students learned about default and static methods in interfaces, interface hierarchy, and marker interfaces like `Serializable`.

1:00 – 3:00 PM (Practical): Modern Java Features

Students implemented lambda expressions with functional interfaces, wrote programs using default methods in interfaces, and explored marker interfaces.

Outcome: Students gained exposure to modern Java programming practices relevant to industry.

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Day 7 (24th August 2025):

Time: 01:00 PM - 03:00 PM

Content:

1:00 – 2:00 PM: Conclusion & Valedictory

A concluding session was conducted where the resource person summarized all concepts learned during the SDP. Students shared feedback and highlighted how the program enhanced their Java skills.

2:00 – 3:00 PM: Online Assessment Test

An online quiz of 30 questions (MCQ + coding-based) was conducted to evaluate the students' learning.



- Minimum 80% score was required for certification.
- The assessment ensured comprehensive evaluation of both theory and practical concepts.

Outcome: Students consolidated their learning and were formally assessed. Certificates were awarded to eligible participants.

Mapped PO/PSO:

Program Outcomes (POs) Mapped:

- **PO1 (Engineering Knowledge):** Applied knowledge of programming fundamentals (Java basics, loops, arrays).
- **PO2 (Problem Analysis):** Identified, formulated, and solved programming problems using OOP concepts.

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- **PO3 (Design/Development of Solutions):** Designed and implemented small-scale applications using classes, interfaces, and abstraction.
- **PO5 (Modern Tool Usage):** Used IDEs, Java tools, and debugging techniques effectively during lab sessions.
- **PO9 (Individual and Team Work):** Participated actively in hands-on sessions and group learning activities.
- **PO10 (Communication):** Enhanced technical communication by writing, presenting, and explaining code.
- **PO12 (Life-long Learning):** Demonstrated eagerness to learn advanced Java features (functional interfaces, default methods).

Program Specific Outcomes (PSOs) Mapped (IT Department):

- **PSO1:** Apply core IT knowledge to design and develop software solutions using Java and OOP principles.
- **PSO2:** Utilize programming skills for real-world problem-solving through abstraction, polymorphism, and interface concepts.
- **PSO3:** Adapt modern programming practices (Java 8+ features like functional interfaces and lambda expressions).

Photos of Event:





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हॅलो प्रभात ऑब्जेक्ट-ओरिएंटेड प्रोग्रामिंग विषयावर ट्रेनिंग संपन्न



पुणे : हॅलो प्रभात

यथील अखिल भारतीय मराठा शिक्षण परिषदेच्या अंतर्गत पवार कॉलेज ऑफ इंजिनिअरिंग अँड रिसेर्च महाविद्यालयाच्या इन्फॉर्मेशन टेक्नॉलॉजी विभाग व गिरी टेक हब प्रा.ली. यांचे संयुक्त विद्यमाने विद्यार्थ्यांसाठी 'ऑब्जेक्ट-ओरिएंटेड प्रोग्रामिंग' या विषयावर ३२ तासांचा विद्यार्थी विकास कार्यक्रम आयोजित करण्यात आला. या ट्रेनिंग मध्ये विद्यार्थ्यांना मोफत हॅड्स-अप ट्रेनिंग देण्यात आले. प्रशिक्षणादरम्यान विद्यार्थ्यांना जगात प्रोग्रामिंगचे बोलक ते अॅडव्हान्स् कन्सेप्ट्स, ऑब्जेक्ट-ओरिएंटेड प्रोग्रामिंगचे सिद्धांत, तसेच रिअल-टाईम कोडिंग अनुभव यांची सखोल माहिती देण्यात आली. हा कार्यक्रम विद्यार्थ्यांच्या तांत्रिक कौशल्याचा विकास करण्यासाठी तयारी करण्यासाठी उपयुक्त ठरला. या कार्यक्रमाचे आयोजन महाविद्यालयाचे प्राचार्य डॉ. सुनील ठाकरे यांचे मार्गदर्शनाखाली विभाग प्रमुख डॉ. अमित कदम यांनी आयोजित केला, तर प्रा. प्राजक्ता खैरे व प्रा. राजश्री निक्म यांनी हा कार्यक्रम उत्कृष्टरीत्या समन्वयित केला. या उपक्रमासाठी महाविद्यालयाचे प्राचार्य प्रा. एस. बी. ठाकरे, डॉ. अमित कदम, समन्वयक प्रा. प्राजक्ता खैरे व प्रा.राजश्री निक्म सर्व प्राध्यापक व विद्यार्थी उपस्थित होते. महाविद्यालयाचे या ट्रेनिंग सत्राचे आयोजन केल्या बद्दल 'अखिल भारतीय मराठा शिक्षण परिषदेच्या सराईटणीस सौ.प्रमिला गावकरवाड यांनी सवांधे अभिनंदन केले.

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P. G. Khaire
30/9/25

Prof. P. G. Khaire Prof. R. A. Nikam
Event Coordinator

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Amit A. Kadam
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Dr. Amit A. Kadam
Head of Department

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Sunil B. Thakare

Dr. Sunil B. Thakare
Principal
01-10-25