



J.B. INSTITUTE OF ENGINEERING&TECHNOLOGY

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Bhaskar Nagar, Yenkapally(V), Moinabad(M), P.O. Himayathnagar, R.R. District, Hyderabad-5000075.

Department of Information Technology

Guest Lecture on

“Java Design Patterns”

Date: 19th April, 2025

B.Tech – III Year – II Sem

A.Y: 2024 – 2025

Coordinators

Mr. U. Karthik, Assistant Professor

Mr. B. Bharath Kumar, Assistant Professor

Convener

Dr. Ramesh Babu

Associate Professor & Head of the Department

Circular



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DEPARTMENT OF INFORMATION TECHNOLOGY

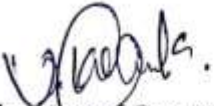
DATE: 11 - 04 - 2025

CIRCULAR

This is to inform all **III Year students** that the Department of **Information Technology** is organizing a Guest Lecture on "**Java Design Patterns**" on 19-04-2025 (Wednesday). The Expert Lecture will be conducted in **Room No: 227** from 9:30 am onwards.

Dr. Naveen will be the resource person for the Guest Lecture, and is aimed at enhancing students' understanding of Java Design Patterns.

All Students are requested to attend and make the event a grand success.


Signature of Coordinator


Signature of HOD

PREAMBLE

In the ever-evolving landscape of software development, creating flexible, reusable, and maintainable code is crucial. As applications grow in complexity, developers often face recurring challenges that demand proven solutions. Design patterns provide a time-tested approach to solving common software design problems. They encapsulate best practices and industry standards that lead to efficient and scalable software architecture.

This document/presentation explores Java Design Patterns, a collection of object-oriented solutions that simplify the development process. By understanding and applying these patterns, Java developers can improve code readability, foster better collaboration, and accelerate development cycles. The patterns discussed herein are categorized into Creational, Structural, and Behavioral types, each addressing specific design concerns in Java applications.

A Glimpse of the Event

Welcome to “Java Design Patterns: A Glimpse of the Event”, a session designed to explore the art and science of crafting robust, scalable, and maintainable software using well-established design patterns in Java.

This event offers an insightful journey through the core principles of object-oriented design, showcasing how Creational, Structural, and Behavioral design patterns can streamline development and promote best practices in real-world Java applications.

Whether you're a seasoned developer looking to refresh your architectural thinking or a learner stepping into the world of enterprise-grade Java, this event aims to:

- Demystify commonly used design patterns through practical examples and use cases.
- Bridge the gap between theory and implementation in everyday development.
- Equip attendees with reusable solutions for recurring design problems.
- Foster deeper understanding of software design principles like SOLID, DRY, and modularity.

Join us as we uncover the patterns behind powerful Java applications and empower you to write cleaner, more efficient, and future-proof code.

Event Poster/Banner



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Department of Information Technology

Guest Lecture on

"Java Design Patterns"

19th April 2025, 9:30 AM to 12:20

Venue : Information Technology Block JB.IET.Hyd



Dr. Naveen

Associate Professor

**Department Computer Science
and Engineering**

Resource Person Profile



Dr. Naveen holds a Ph.D. in Computer Science and Engineering and is a seasoned academic with deep expertise in object-oriented programming, software architecture, and enterprise-level Java development. As a scholar from the Department of Computer Science and Engineering, his research and teaching focus on designing robust, maintainable, and scalable software systems.

His work integrates academic rigor with real-world applicability, making him a sought-after speaker in the areas of software engineering and Java design. Dr. Naveen's sessions are known for their clarity, practical demonstrations, and strong industry relevance.

Event Outcome

Upon successful completion of the Java Design Patterns program, participants will be able to:

Understand the Purpose of Design Patterns

- Gain a solid understanding of the role design patterns play in software architecture and their benefits in improving code quality, flexibility, and maintainability.

Classify Design Patterns

- Identify and categorize design patterns into Creational, Structural, and Behavioral types, understanding when and why to use each category.

Apply Patterns to Real-World Problems

- Analyze common software development scenarios and apply appropriate design patterns to solve problems in an efficient and scalable manner.

Implement Patterns in Java

- Write clean and modular Java code that implements widely-used design patterns such as Singleton, Factory, Builder, Adapter, Observer, Strategy, and more.

Improve Object-Oriented Design Skills

- Enhance object-oriented programming practices by following principles such as SOLID, DRY (Don't Repeat Yourself), and Separation of Concerns through pattern-based solutions.

Enhance Collaboration and Communication

- Use design pattern terminology and UML to communicate software design ideas effectively across teams and documentation.

Prepare for Technical Interviews & System Design

- Build confidence in discussing and applying design patterns in technical interviews, coding assessments, and system design discussions.

Develop Maintainable and Scalable Applications

- Architect solutions that are easy to maintain, extend, and test — aligning with modern software development standards.

Photos of the Event



Fig 1: Resource person Dr. Naveen addressing the Students



Fig 2: Faculty Coordinator addressing the Resource Person



Fig 3: Faculty coordinators along with Students

Attendance Sheet

Date: 19/04/2025

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III B.Tech- I Sem IT - 2022 Batch - (2024-25)

Information Technology (Branch code: INF)

Java Design patterns how to write maintainable and scalable code

Sl.No.	Roll No.	Name of the Student	Signature
1	22671A1201	ALLAPURE GANESH	Ganesh
2	22671A1202	AUSHALA ARVIND	Arvind
3	22671A1203	B SHARONI	
4	22671A1204	BANDARI SHARVAN	
5	22671A1205	BANGARU HARIVARDHAN	Harivardhan
6	22671A1206	BASSI AMOL	
7	22671A1207	BUSANI NIKHIL	Nikhil
8	22671A1208	D SHIVAPRASAD	Shiva
9	22671A1209	DEVARA SATYANARAYANA	Sathya
10	22671A1210	DHAVANAM SANJAY	Sanjay
11	22671A1211	ELETI RAMAKRISHNA REDDY	Ramakrishna
12	22671A1212	G BHAVYA	Bhavya
13	22671A1213	G SREE LAXMI	Laxmi
14	22671A1214	GALIPELLI KIRAN KUMAR	
15	22671A1215	GOPAGANI TEJA UDAY KIRAN	
16	22671A1216	GOPIREDDY MANUSHA	Manusha
17	22671A1217	GUNDRALA MOHANADITYA	
18	22671A1218	GUNTUPALLI BHUVASYA	Bhuvasya
19	22671A1219	H MAMTHA	Mamatha
20	22671A1220	JEGALLA CHANDINI PRIYA	
21	22671A1221	JELLA CHARITHA	Charitha
22	22671A1222	KADIPIYAKA LIKITH	Likith
23	22671A1223	KAMMARI SAI CHARAN	Sai
24	22671A1224	KAPPERA MADHAVI	
25	22671A1225	KOPPULA REVANTH	Revant
26	22671A1226	KUMMARIKUNTLA MAHALAXMI	Malaxmi
27	22671A1227	KUNTA SREEJA	Sreeja
28	22671A1228	LAKKAKULA VAMSHI RAJ	Vamshi
29	22671A1229	MATAM CHETAN KUMAR	Chethan
30	22671A1230	MIDIVELLI ARAVINDA SWAMI	
31	22671A1231	MONGOLLA TANAAY	Tanay
32	22671A1232	MUNUKOTI SRI TANAY	Tanay
33	22671A1233	NAGARAM AKSHITHA GOUD	Akshitha
34	22671A1234	NALLA POOJITHA	Poojitha

35	22671A1235	NAVYA SREE BATT	
36	22671A1236	PADALA SOUMYA	<i>SOUMYA</i>
37	22671A1237	PALLE MANASWINI	<i>MANASWINI</i>
38	22671A1238	PANTHULU RAVI RAJA	<i>RAVI RAJA</i>
39	22671A1239	PATLOLLA RAHUL	<i>RAHUL</i>
40	22671A1240	PEBBETI SIDDHARTHA	<i>SIDDHARTHA</i>
41	22671A1241	POTURI SAMAYA REDDY	<i>SAMAYA REDDY</i>
42	22671A1243	RAMASAHAYAM NITHIN REDDY	<i>NITHIN REDDY</i>
43	22671A1244	RAMAVATH KOWLIKA	
44	22671A1245	SAMALA ASHRITHA	<i>ASHRITHA</i>
45	22671A1246	SATHUGARI SHRAVYA REDDY	
46	22671A1247	SAVANI AKHIL	<i>AKHIL</i>
47	22671A1248	SHAHEEN SULTANA	
48	22671A1250	SHERI KEERTHANA REDDY	<i>KEERTHANA REDDY</i>
49	22671A1251	SIDDAMSHETTI NIVEDITH	<i>NIVEDITH</i>
50	22671A1252	SYED FAISAL	
51	22671A1253	TALLURI MANEESH	<i>MANEESH</i>
52	22671A1254	UDUTHA AKSHAY SAI	
53	22671A1255	VALLALA TEJASWINI	<i>TEJASWINI</i>
54	22671A1256	VEERAMALLA VIGNESH	<i>VIGNESH</i>
55	22671A1257	VIJAY PRASAD TIWARI	
56	22671A1258	VISHWANATHAM HARSHITHA	<i>HARSHITHA</i>
57	22671A1259	VORUGANTI AJAY SAI GANESH	<i>GANESH</i>
58	22671A1260	YAMBARI AKASH	<i>AKASH</i>
59	22671A1261	K VIGNESH TEJA	<i>TEJA</i>
60	22671A1262	SANAKA DUNDI SOMAN	
61	22671A1263	CHITTALOORI SHASHANK	
62	22671A1264	PULLURI GOKUL	<i>GOKUL</i>
63	23675A1201	GURIJALA SRINIVAS RAO	
64	23675A1202	BOLLA SNEHA	<i>SNEHA</i>
65	23675A1203	KURUKNDA JASWANTH	
66	23675A1204	KONDA KAMAKSHI	<i>KAMAKSHI</i>
67	23675A1205	CHAWAN RAHUL	<i>RAHUL</i>


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