Jansons Institute of Technology

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Coimbatore, Tamil Nadu – 641659
www.jit.ac.in

Event Report

Title	:	"CS8602-COMPILER DESIGN: Optimization Techniques in Compiler"
Date	:	04-06-2022 Time: 10:30AM – 11:30 AM
Venue	:	Hybrid, Online (JIT eEDU: https://ims.jit.ac.in/cloud/apps/bbb/b/7ekPjj5RjpiebZwZ)
Organised by	:	Department of Computer Science and Engineering
In association with	:	JIT - NDLI
Student Activity	:	Yes / ~~No~~

Speaker Details

Name	: **Dr. K.Geetha**
Designation	: **Professor**
Affiliation	: **Department of Computer Science, Excel Engineering College (Autonomous), Komarapalayam.**

Topic : Optimization Techniques in Compiler

JIT Website

Live   http://www.jit.ac.in/cse_event_rep.php?aid=719

https://www.facebook.com/250442415535499/photos/a.450285145551224/1108597826386616/

https://www.instagram.com/p/CeBGhuILHl9/

https://twitter.com/JIT_Offl/status/1529765202228822016/photo/1
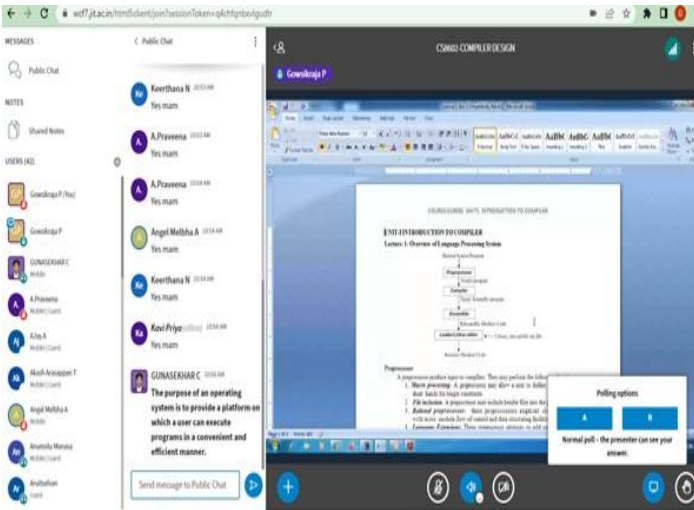
Event Objective

To provide the Program transformations, often known as optimizations, An optimizing compiler evaluates the code, it generates and rewrites it in a more efficient manner to improve the quality of the code it generates. Simple compilation methods frequently generate code that can be modified to run faster, take up less space, or do both. Optimizing compilers are compilers that use code-improvement modifications.
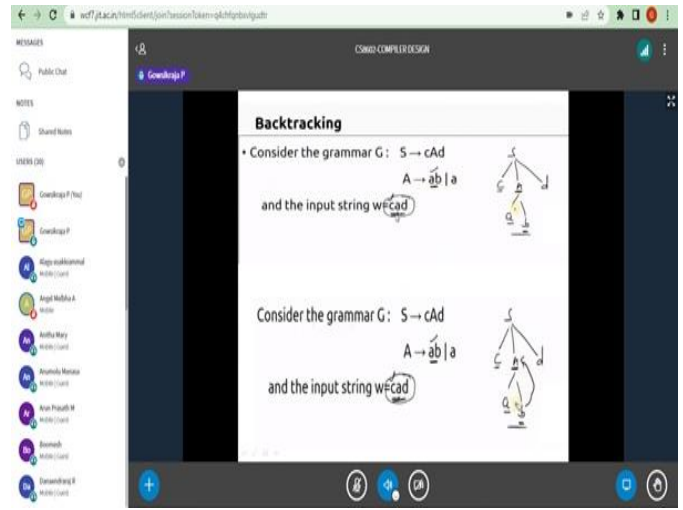
Event Summary

The optimizer of a modern compiler includes a number of ways for optimising the efficiency of compiled code. Optimizations boost performance by adapting broad translation schemes to the specific characteristics of the code at hand. To find exceptional instances with efficient implementations and adjust the code in less computation time and high speed. Compilation match the program's resource requirements to the target processor's resources, such as functional units, memory hierarchy capacity and bandwidth (registers, cache, translation lookaside buffers, and memory) and instruction-level parallelism.
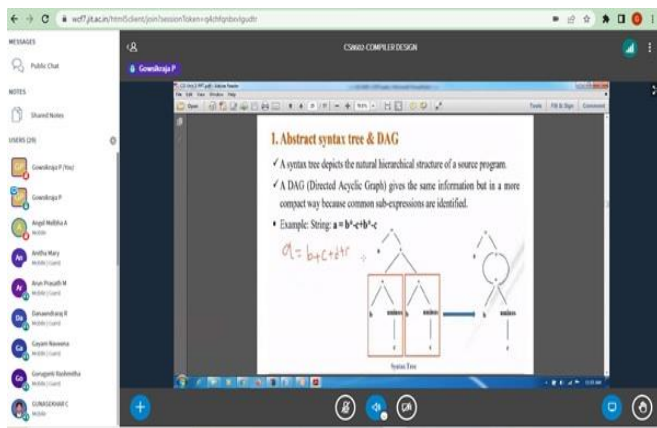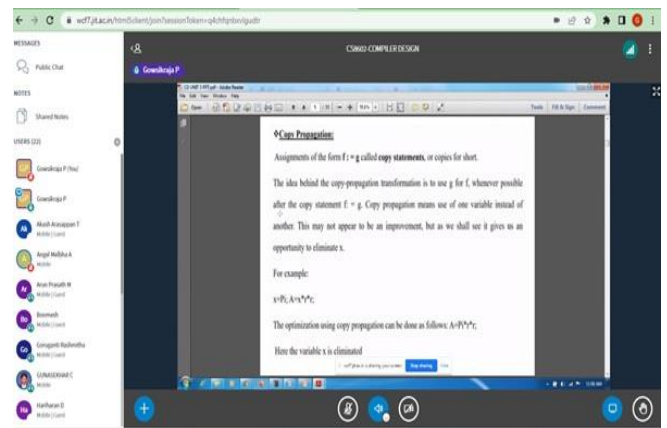
Event Photographs

Dr.K.Geetha presented about fundamentals of a compiler

Dr.K.Geetha presented regular expression and grammar

Dr.K.Geetha elaborated how DAG works

Dr.K.Geetha deliberated optimization techniques

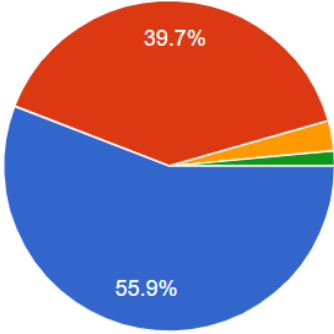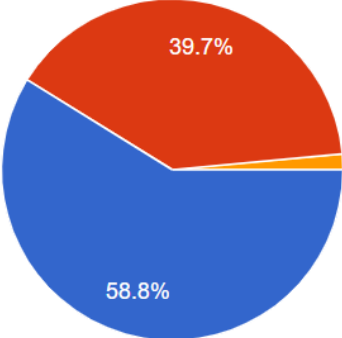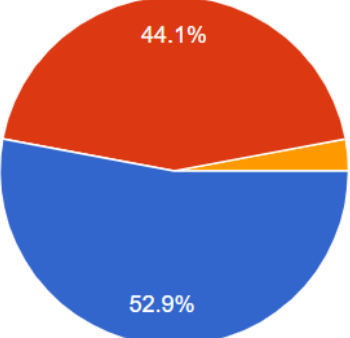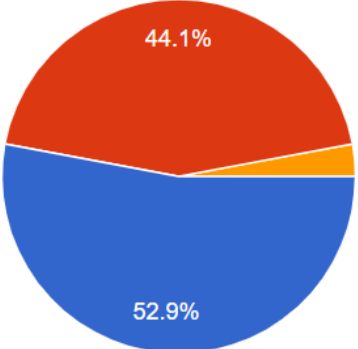Dr.K.Geetha interaction with our students

Paper clipping in The Hindu newspaper about the event

Event Outcomes

The impact of compiler optimization on application and service development, management, and implementation is examined in detail. Examine the types of features that customers value the most, as well as the obstacles that both offline and online compilation, which includes IT and data management, present. Recommend best practices for compiler optimization approaches.

How would you rate the event in terms of preparation, flow, and content?	Very Satisfied 55.9%, Satisfied 39.7%, Neutral, Dissatisfied
The content and activities of the event has increased my knowledge.	Very Satisfied 58.8%, Satisfied 39.7%, Neutral, Dissatisfied
How would you rate the speaker in terms of knowledge and presentation?	Very Satisfied 52.9%, Satisfied 44.1%, Neutral, Dissatisfied
Overall experience of the event.	Very Satisfied 52.9%, Satisfied 44.1%, Neutral, Dissatisfied
Suggestion for Improvements (If any)	Nil

No. of Participants / Benefices

Total (Participants / Benefices)	Students	Faculty	Students (Outside institution)	Faculty (Outside institution)
100	89	11	-	-

Date of report submission: 07-06-2022

Student Coordinator   **Faculty Coordinator**   **Head of Department**
((Angel Melbha A))   (Mr.P.Gowsikraja)   (Dr.A.Velayudham)

Principal

Enclosed (to be removed while printing)
1. Brochure
2. Agenda
3. Participants List
4. Winner List (if applicable)
5. Speaker Profile (if applicable)