

Circular



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Date: 22-03-2023

This is to inform all the faculties and students of ARKA JAIN University that the Department of Mechanical Engineering, School of Engineering and IT is going to organize **Knowledge Manthan**, a *technical awareness* on 1st April 2023 at Baudhayana Block in Seminar hall. The faculties, who are going to deliver PPT on their selected topic, are:

1. Dr. Aditya Prasad Padhy on the topic "Model order reduction of continuous time system using Artificial Gorilla Troop Optimization Algorithm".
2. Prof. Rakhi Jha on the topic "Introduction to chat GPT"

Event Coordinator:

Dr. Anupam Kumari

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Anu's
Asst. Dean
School of Engineering & IT
Assistant Dean
ARKA JAIN University
School of Engineering & IT
ARKA JAIN University, Jharkhand

Copy for information & necessary action please:-

- | | |
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KNOWLEDGE MANTHAN

Date of Event	01.04.2023
Name of Event	Knowledge Manthan
Conducted by	Dr. Anupam Kumari
Number of Participants	14
Resource Person	Dr. Aditya Prasad Padhy (Assistant Prof., Dept. of Engg, Arka Jain University Jharkhand) Prof. Rakhi Jha (Asst. Prof., Dept. of Engg, Arka Jain University Jharkhand)

Knowledge needs of different employees in a department are different. Knowledge surfaces through dialog, all knowledge is socially mediated and access to knowledge is by connecting to people that know or know who to contact. Knowledge Manthan dated 1st April 2023 two topics have been presented by the resource persons:

Dr. Aditya Prasad Padhy on the topic “Model order reduction of continuous time system using Artificial Gorilla Troop Optimization Algorithm”

Prof. Rakhi Jha on the topic “Introduction to chat GPT”

The Resource person **Dr. Aditya Prasad Padhy** is Assistant Professor of the School of Engineering and IT, ARKA JAIN University Jharkhand, Jamshedpur.

Dr. Aditya Prasad Padhy articulate about “Model order reduction of continuous time system using Artificial Gorilla Troop Optimization Algorithm”. He said that, Metaheuristic Algorithms (MAs) have developed rapidly in recent decades, attracting the attention of scholars in many fields. They do not rely on gradient information but are inspired by nature, such as group behavior, social behavior, physics, etc. Its core idea is that several simple individuals form a group and show advanced and complex functions through cooperation, competition, interaction, and learning mechanisms. Therefore, in the process of solving optimization problems, it is not required to have continuity, derivative, and other conditions. The artificial Gorilla Troop Optimization Algorithm (GTO) is a new metaheuristic algorithm, its inspiration comes from gorilla social behavior, such as the gorilla’s migration, competition, and following behaviors. The principle is to change other gorillas’ positions with the silverback gorilla, a process divided into two stages: exploitation and exploration. So far, the algorithm has been used in many fields, such as shortest-path planning problems, engineering optimization problems, robot parking problems,

The Resource person **Prof. Rakhi Jha** is Assistant Professor of the School of Engineering and IT, ARKA JAIN University Jharkhand, Jamshedpur.

Prof. Rakhi Jha addressed the participant about “Introduction to chat GPT”. The aim of the lecture was to sensitize the audience about artificial intelligence language model developed by Open AI that has been trained on a huge amount of text data to generate human-like responses to natural language inputs. Anyone can use Chat GPT by integrating it into their own apps or by using one of the many prebuilt chatbot platforms that incorporate the technology. Individuals could use Chat GPT to build personal assistants that can answer questions, schedule appointments, and perform other tasks. These assistants could be integrated into mobile apps or accessed through voice-powered platforms like Amazon Alexa or Google Assistant. She concluded that Chat GPT is a powerful tool for generating text responses in real-time conversations. Its internal architecture combines machine learning algorithms, deep learning techniques, and attention and memory mechanisms to generate accurate and relevant responses. This technology has the potential to revolutionize the way we interact with chatbots and virtual assistants, providing more natural and human-like conversational experiences.

Event Poster

JGI ARKA JAIN
University
Jharkhand

Department of Engineering
Organizes

**KNOWLEDGE MANTHAN
SATURDAY**

Date : 1st April 2023
Time : 12:00 - 1:00 PM
Venue : Seminar Hall, Baudhayana
Block

Speakers :
Dr. Aditya Prasad Padhy on the topic
“Model order reduction of continuous
time system using Artificial Gorilla Troop
Optimization Algorithm”
Prof. Rakhi Jhaon the topic “Introduction
to chat GPT”

Convenor : Dr. Ashwini Kumar
Faculty I/C : Dr. Anupam Kumari

Figure 1: Poster of Knowledge Manthan

Event Pictures

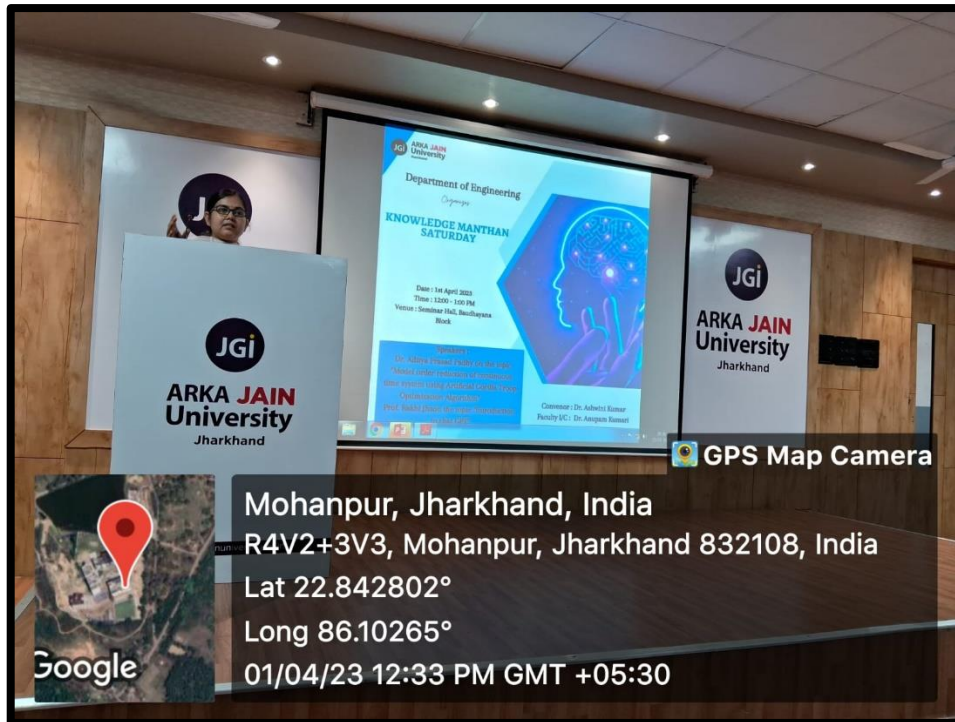


Figure 2: Picture of the commencement of the Knowledge Manthan



Figure 3: Picture of the commencement of the Knowledge Manthan

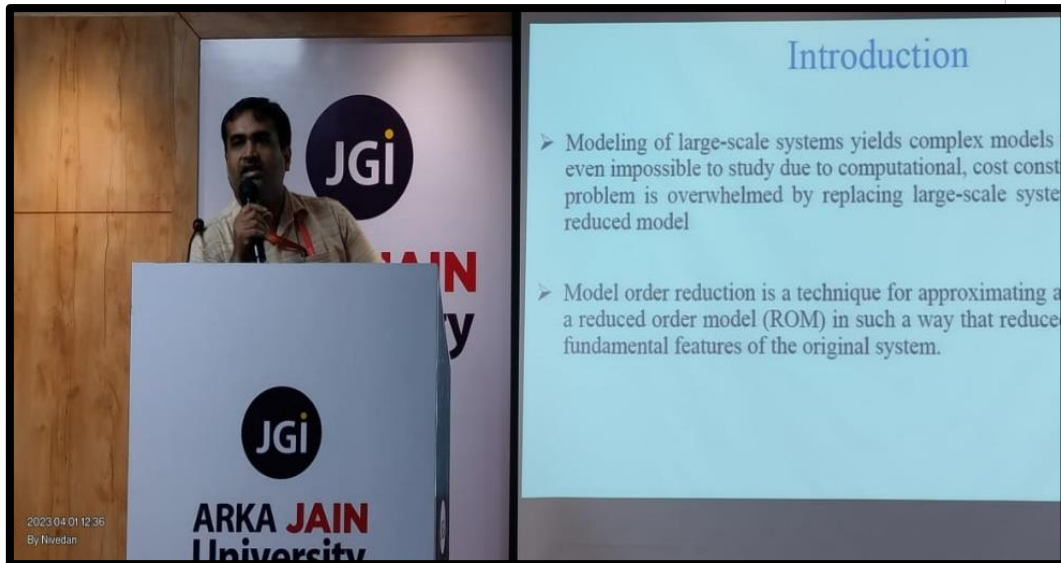


Figure 4: Dr. Aditya Prasad Padhy delivering the lecture



Figure 5: Prof. Rakhi Jha delivering the lecture



Figure 6: Participants during the knowledge Manthan Session

LIST OF PARTICIPANTS

JGI ARKA JAIN University
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Attendance Sheet of Knowledge Manthan

Date: 1.04.23

Knowledge Manthan session has been successfully organized by Dept. of Engineering, School of Engineering & IT on 1.04.23 at 12:00 Noon -1:00 PM in Seminar hall, Baudhyana Block (Block C). The faculty members, who are present today, are:

S. No.	NAME	SIGNATURE
1.	Dr. Chandra Prabha Sahu	<i>C.Sahu</i>
2.	Nivedan Mehera	<i>Nivedan</i>
3.	Ranjeef Kumar	<i>R.Kumar</i>
4.	Puja Prasad	<i>P.Prasad</i>
5.	Dr. Nupur Sharma	<i>N.Sharma</i>
6.	Dr. Keerti Rai	<i>K.Rai</i>
7.	Rakhi Chakraborty	<i>R.Chakraborty</i>
8.	Rakhi Jha	<i>R.Jha</i>
9.	SARIT KUMAR RAJAK	<i>Sarjit Kumar Rajak</i>
10.	DR. ADITYA PRASAD PADIY	<i>A.Padiy</i>
11.	Dr. Anil Prakash Sin	<i>A.Sin</i>
12.	Syed Rashid Anwar	<i>R.Anwar</i>
13.	Megha Srivastava	<i>M.Srivastava</i>
14.	Sujata Kamari	<i>S.Kamari</i>
1.		