CIRCULAR

Department of Computer Science & Information Technology

Ref. No.: AJU/CS&IT/   /2021-22   **Date: 11.06.2022**

It is notified for information to all the students that the ***Department of Computer Science & Information Technology, School of Engineering and IT, ARKA JAIN University, Jharkhand*** is going to organize the Value Added Course on **Soft Computing** from 28th June 2022 to 14th July 2022 for all students of the University. The students are hereby advised to register themselves in this session by the end of 27th June 2022.

Link for Registration: https://forms.gle/tWZ3UsBSSRMzwxX97

The Registration link will be active till **10:00AM – 27th June 2022.**

Dr. Arvind Kumar Pandey
Head, Computer Science & IT
School of Engineering & IT
ARKA JAIN University

Copy for information & necessary action please:-

1. PS to the Vice-Chancellor
2. PS to the Director
3. PS to the Registrar
4. In charge Web Service for Website
5. Notice Board
6. Guard File

Detailed Report on Value Added Courseon Soft Computing

From 28-06-2022 to 14-07-2022

Date of Event	28-06-2022 to 14-07-2022
Name and Type of Event	Value Added Course on Soft Computing
Conducted by	Ms. Divya Paikaray, Dr. Arvind Kumar Pandey
No. Of Participant	21

The Value-Added Course on Soft Computingwas organized from 28-06-2022 to 14-07-2022, in the Department of Computer Science and IT ARKA Jain University, Jamshedpur. The Program was Coordinated by Ms. DivyaPaikarayand Dr.Arvind Kumar Pandey, Head of CS and IT Department.

In this course, students will be able to :

- To develop intelligent machines to provide solutions to real world problems, which are not modeled, or too difficult to model mathematically.
- It encourages the integration of soft computing theoretical and practical results into both everyday and advanced applications.
- Computational paradigms and computational complexity
- Description logic, temporal logic, dynamic logic, and modal logic
- Domain theory and type theory
- Fuzzy logic, fuzzy set theory, and many-valued logic
- Substructures logic
- Probability logic, belief functions, etc.

The value-added course, was initiated by Ms. Divya Paikaray on 28-06-2022 in computer Lab of the Dept. of CS & IT Lab at 3:00 PM to 5:00 PM.All the students had joined the course and learnedabout the Soft Computing and its tools which includes many new fields. In the last day of the program students had appeared in the test and qualified theabove-mentioned value-added course with the minimum criteria.

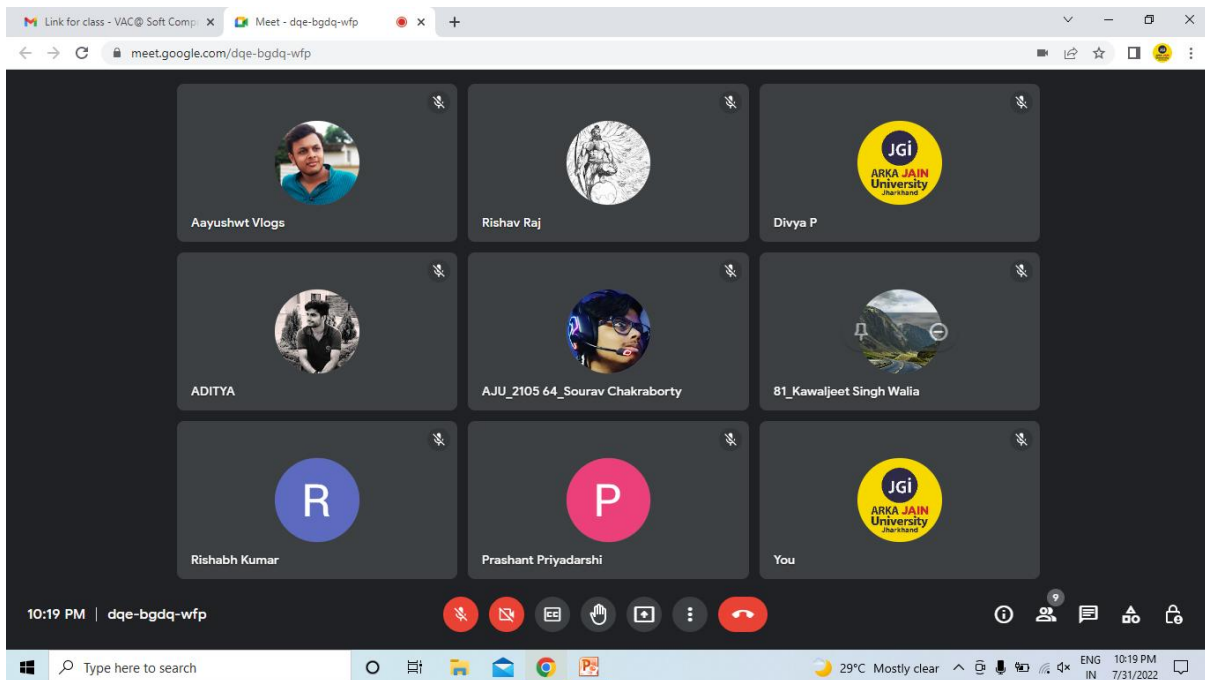**Poster of the Event:**

Photos of the Event

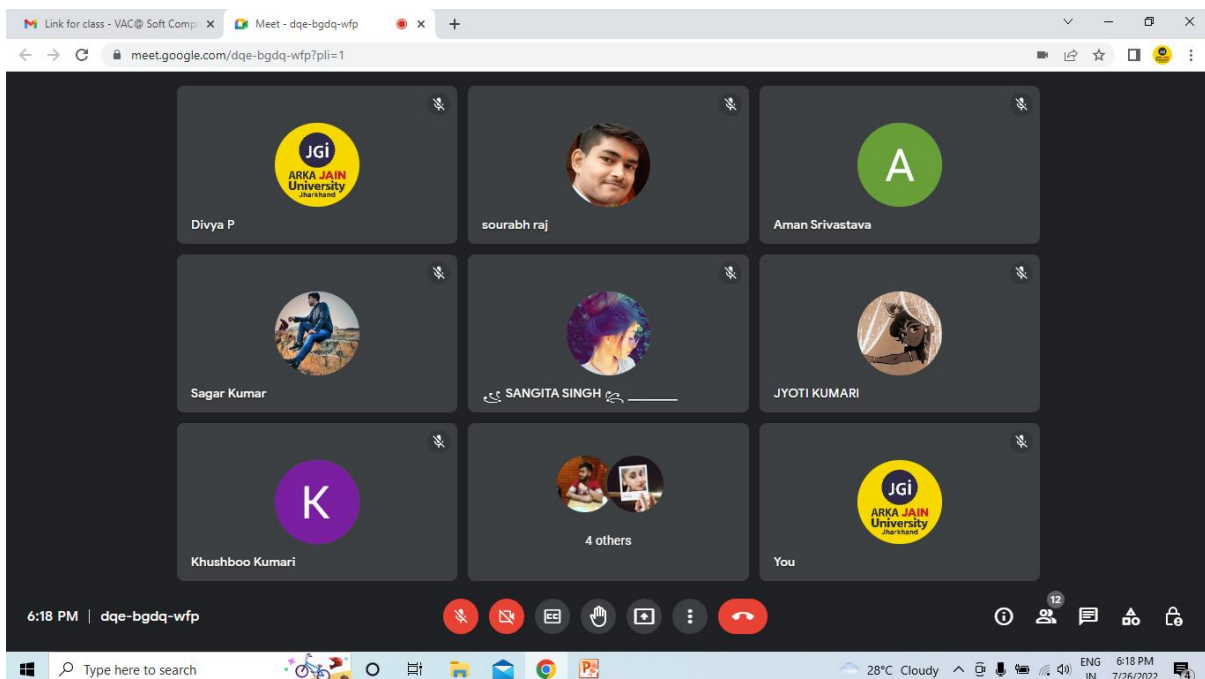Fig 1.1 Photo of the Event Value Added Course on Soft Computing

Fig 1.2 Photo of the Event Value Added Course on Soft Computing
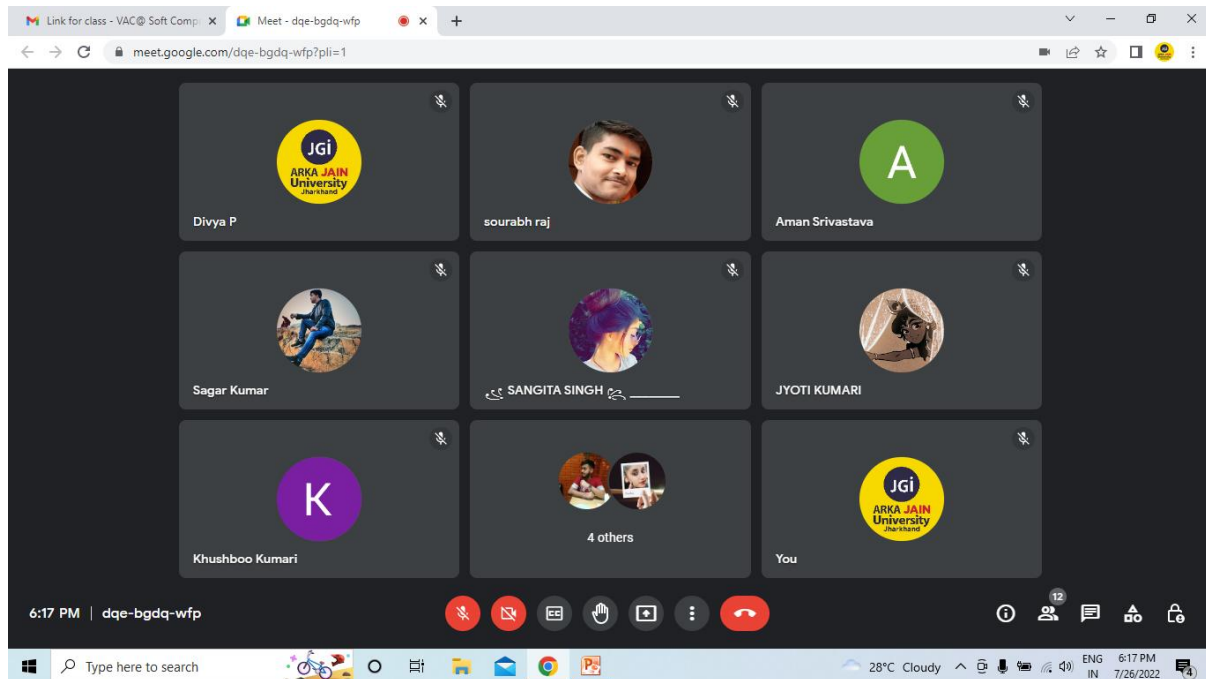
Fig 1.3 Photo of the Event Value Added Course on Soft Computing

ABOUT JGI

JGI Group is an education provider and an entrepreneurship incubator in India. The Group successfully operates 85 educational institutions with 51,600 students and 6,450 employees engaged at the K-12, undergraduate and postgraduate levels spread across 64 campuses pan India. A leader in the education sector and a pioneer in the venture sector, JGI Group are constantly in search of new opportunities to expand its horizon.

ABOUT ARKA JAIN UNIVERSITY

An academic institute ought to set its vision of high noted academic, intellectual and entrepreneurial development. ARKA JAIN University (AJU), Jamshedpur is committed to human development at all levels through education and entrepreneurship. It provides quality education thereby creating human assets for the nation and the globe as well. AJU is a premier private university of Jharkhand with a venerable legacy of the JGI group sprinting ahead for national acclamation for noted academic standards, diverse educational programs, distinguished faculties, varied co- curricular activities and state-of-the-art infrastructures. The University is on the way to sustain the acclaimed standards and best practices in higher education. It is committed to nation building and unflinching adherence to universal university human values. The sprawling university spreads across 25 acres of lush green land leaving no stone unturned in providing state-of- the-art facilities in various sectors including education, sports, entrepreneurship, research, and other academic ventures. The campus of the University is situated at Mohanpur, Gamharia, Dist: Seraikela – Kharsawan, 13 km from the steel city, Jamshedpur. Popularly known as Tatanagar, named after the visionary industrialist Shri J.N.Tata, founder of TATA Groups. The magnificence of the university lies in the enhancement of various courses with leaps and bounds. ARKA JAIN University aids each.

ABOUT ENGINEERING & IT

AJU School of Engineering & Information Technology is established with an aim to provide quality education and entrepreneurship development. ARKA JAIN University is an intellectual destination that draws inspired students from diverse backgrounds. Bachelor of Computer Applications is a 3-year undergraduate programme. It is extended over six semesters. The primary objective of our BCA program is to provide a foundation of computing principles and business practices for effectively using/managing information systems and enterprise software. This program aids the students to get a sound understanding of Computer Applications which can give them a perfect start for a challenging career in the field of Information Technology. This program prepares students with the necessary skills to build successful careers in the information sector. The curriculum is truly tuned for the holistic development of the students and aims at nurturing them as proficient programmers and computer professionals. MCA program caters to the foundation of computing principles and business practices and to train the students to analyse problems in a wide range of applications. This program provides exposure to the students to enterprise software management methodologies. The teaching-learning include innovative pedagogies like case assignment, live projects, lab assignments, exploration of different software tools and presentation with viva voce . The MCA programme emphasizes on the depth of the knowledge of the recent trends and technologies in demand. The MCA program helps students in development of entrepreneurial abilities, personality development, and soft skill development throughout the course.

ABOUT THE VALUE ADDED COURE

- Tentative Timelines:
  - I. Registration Opens : 15.06.2022
  - ii. Registration Closes : 27.06.2022
  - iii. Announcement of Selected Students : 27.06.2022
  - iv. Commencement of Classes : 28.06.2022

- The students are advised to read the guidelines, annexures as well as the embedded instructions in the registration forms very carefully before proceeding.

- List of students will be finalized on first come first serve basis.

- The names of the selected students will be put up in a separate notice. A mail will also be sent to only selected students.

- On the commencement of the course, it is mandatory for the students to attend all the classes pertaining to the course.

- The total duration of the course shall be 30 hours. The classes will be held on second half.

- Registered students must be with their computer/laptop/tab having internet facility.

- Certificate will be issued only those students who will be regular in class and qualified the test.

OBJECTIVES OF THE WORKSHOP

From June 28th and 14th,
we will be having our Value added Course.

Course Outline :
Introduction to Soft Computing

Sessions	Topics		
1	**UNIT : 1** Introduction to Neuro, Fuzzy and Soft Computing	Date : 28.06.2022	Time : 1:00 to 3:00 PM
2	Fuzzy Sets : Basic Definition and Terminology	Date : 29.06.2022	Time : 1:00 to 3:00 PM
3	Fuzzy Rules and Fuzzy Reasoning	Date : 30.06.2022	Time : 1:00 to 3:00 PM

Topic of Value-Added Course Date and Time:

Sessions	Topics	Date	Time
	UNIT: 1		
1.	Introduction to Neuro, Fuzzy and Soft Computing	**28.06.2022**	**1:00 to 3:00 PM**
2.	Fuzzy Sets : Basic Definition and Terminology	**29.06.2022**	**1:00 to 3:00 PM**
3.	Fuzzy Rules and Fuzzy Reasoning	**30.06.2022**	**1:00 to 3:00 PM**
	UNIT: 2		
4.	Artificial neural network	**01.07.2022**	**1:00 to 3:00 PM**
5.	Introduction to Machine Learning	**02.07.2022**	**1:00 to 3:00 PM**
	UNIT: 3		
6.	Supervised Learning	**04.07.2022**	**1:00 to 3:00 PM**
7.	Unsupervised Learning	**05.07.2022**	**1:00 to 3:00 PM**
8.	Classification - Algorithm	**06.07.2022**	**1:00 to 3:00 PM**
	UNIT: 4		
9.	Classification - Algorithm	**07.07.2022**	**1:00 to 3:00 PM**
10.	Clustering - Algorithm	**08.07.2022**	**1:00 to 3:00 PM**
11.	Clustering - Algorithm	**09.07.2022**	**1:00 to 3:00 PM**
	UNIT: 5		
12.	Genetic algorithm- Introduction	**11.07.2022**	**1:00 to 3:00 PM**
13.	biological background - traditional optimization and search techniques - Genetic basic concepts	**12.07.2022**	**1:00 to 3:00 PM**
14.	operators – Encoding scheme – Fitness evaluation – crossover - mutation	**13.07.2022**	**1:00 to 3:00 PM**
15.	Application Related to Research	**14.07.2022**	**1:00 to 3:00 PM**

List of Students:

Email Address	Name	University Registration Number (AJU/XXXXXXX)	WhatsApp Number	Course	Year
rohannnsingh.rv@gmail.com	Rohan Singh Anirban	AJU/200588	8935910101	BCA	3rd
Shradhan236@gmail.com	ShraddhaSandil	AJU/201093	7320991262	BCA	3rd
ujjwalgupta12345911123@gmail.com	UJJWAL KUMAR	(AJU/210404)	6204154340	BCA	1st
yuvirp5016@gmail.com	Yuvraj	AJU/210239	8799745800	BCA	1st
deepaksahu2314@gmail.com	Deepak Sahu	AJU/210645	8757201482	BCA	2nd
ktej9267@gmail.com	K Tej Kumar	AJU/211676	7667378393	BCA	1st
msfatehabadi.001@gmail.com	Rishav Raj	AJU/210711	6201250277	BCA	1st
annashapaul65855@gmail.com	Annasha Paul	AJU/210743	9304283982	BCA	1st
sweetykhatri856@gmail.com	Sweety Khatri	AJU/210876	6200787993	BCA	1st
rsangitasingh27rk@gmail.com	Sangitakumari	AJU/210881	8434572014	MCA	1st
rakesuch@gmail.com	RAKESH KUMAR DAS	AJU/211240	8603868179	MCA	1st
amitmazumdar.edu@gmail.com	Amit Mazumdar	AJU/210082	8451921767	BCA	1st
kawaljeetsingh5115@gmail.com	Kawaljeet Singh Walia	AJU/200378	9471727341	BCA	3rd

surajbksc002@gmail.com	SURAJ KUMAR	AJU/200997	8292954306	BCA	3rd
156khushbookumari@gmail.com	KhushbooKumari	AJU/201314	7294803953	BCA	3rd
manimalapandey49@gmail.com	Roushan Pandey	AJU/200852	9060456540	BCA	3rd
ankitbabusb@gmail.com	Ankit Kumar	AJU/210638	8709369957	BCA	1st
gurleensingh1608@gmail.com	Gurleen Singh Bhatia	AJU/211039	7070926757	BCA	1st
7033534272roxnml@gmail.com	Amanjot Singh	AJU/200148	6204730104	BCA	3rd
simratkaur10072001@gmail.com	Simratkaur	AJU/200573	7979077305	BCA	3rd
sheekhasingh807@gmail.com	SHEEKHA SINGH	AJU/200940	6204366200	BCA	3rd

Certificate of the Event :

CERTIFICATE

This is to certify that

Suraj Kumar Dass

from BCA/MCA has participated in and completed successfully,

The Value Added Course on

"Soft Computing"

organized by the Department of Computer Science and Information Technology,

ARKA JAIN UNIVERSITY, Jamshedpur held from 28-06-2022 to 14-07-2022

(DIVYA PAIKARAY)
COORDINATOR
(CS & IT)

(DR.ARVIND KUMAR PANDEY)
HOD
(CS & IT)

ARKA JAIN University
Jharkhand

CERTIFICATE

This is to certify that

Sweety Khatri

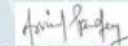from BCA/MCA has participated in and completed successfully,

The Value Added Course on

"Soft Computing"

organized by the Department of Computer Science and Information Technology,

ARKA JAIN UNIVERSITY, Jamshedpur held from 28-06-2022 to 14-07-2022

(DIVYA PAIKARAY)
COORDINATOR
(CS & IT)

(DR.ARVIND KUMAR PANDEY)
HOD
(CS & IT)