



NATIONAL FIVE DAYS FACULTY DEVELOPMENT PROGRAM SCHEDULE:-

DAY	EVENTS		SESSION-1		SESSION-2
Day-1, Monday (10-01-2022)	Inauguration (10:00 - 11:15)	T E A C H E R S	Speaker-1 (11:30 - 12:45) Dr. Rajesh Panda	L U N C H B R E A K	Speaker-2 (2:00 - 3:15) Prof. Amit Prakash Sen
Day-2, Tuesday (11-01-2022)	Speaker-3 (10:00 - 11:15) Dr. Abhilash Ravikumar		Speaker-4 (11:30 - 12:45) Dr. Amrit Mukherjee		Speaker-5 (2:00 - 3:15) Dr. Sandeep A. Kale
Day-3, Wednesday (12-01-2022)	Speaker-6 (10:00 - 11:15) Prof. Saket Saurab		Speaker-7 (11:30 - 12:45) Dr. Binod Kr. Choudhary		Speaker-8 (2:00 - 3:15) Prof. Md. Sazzad
Day-4, Thursday (13-01-2022)	Speaker-9 (10:00 - 11:15) Prof. Kumaresh Pal		Speaker-10 (11:30 - 12:45) Prof. Keshav Prasad Patel		Speaker-11 (2:00 - 3:15) Dr. Amar Kr. Barik
Day-5, Friday (14-01-2022)	Speaker-12 (10:00 - 11:15) Prof. Kundan Kr. Pramanik		Speaker-13 (11:30 - 12:45) Dr. Akshay Kumar		Valedictory Session, Feedback & Assesment Test

ADDRESS

Opp. To Kerala Public School, Mohanpur, Gamharia,
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Website: www.arkajainuniversity.ac.in



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ARKA JAIN
University
Jharkhand (Jamshedpur)

NATIONAL LEVEL FIVE DAYS FACULTY DEVELOPMENT PROGRAMME (VIRTUAL MODE)

JANUARY 10TH - 14TH, 2022

ON

**"Remarkable Advancements and
Innovations in Electrical and Electronics
Engineering-2022 (RAIEEE-2022)"**

Organised by Department of Engineering
School of Engineering and IT
ARKA Jain University, Jamshedpur Jharkhand

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 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 background. AJU Bachelor of Technology (B.Tech) is an AICTE approved professional Engineering under graduate degree of 4 Years duration program offered in 5 different disciplines. Our B.Tech program offers a variety of programs that involve theoretical and practical learning in equal measure. It is one of the most preferred courses and in great demand by the students looking forward to mould their interest and ambition not only in India but for vacancies abroad aiming for lucrative career. As this professional course has made developments & created numerous opportunities in the field of engineering and information Technology. The university is committed to provide excellent Academic curriculum, Laboratory facilities, Workshops, Seminars, Assignments, Industrial visits, and Opportunities for various Experiments, Research and Placement support.

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 THE NATIONAL FACULTY DEVELOPMENT PROGRAMME

This Faculty Development Programme (FDP) is aimed to provides an excellent platform to participate for an in-depth discussion, interaction and presentation on to enhance the knowledge of the participants about the remarkable advancements and innovations in Electrical and Electronics Engineering (RAIEEE-2022) is a quality improvement programme providing forum for academicians and industrial professionals to exchange their knowledge and state of art of aforesaid areas. As we know that the energy sector is under a significant paradigm shift because of limited fossil fuel resources and its adverse environmental impacts. So to protect our globe, we, as a smart and responsible people, have to follow

the smarter and innovative way to generate, transmit, control and utilize the electrical energy. Shifting from conventional way to renewable/hybrid techniques for electricity generations, distributed generation, smart grid, smart lighting systems, electric vehicles, energy efficient buildings etc. are some examples of the recent technologies that may play the key role towards tomorrow's power paradigm shift. The integration of power electronics with renewable energy sources such as solar and wind, electric vehicle has a vast potential to meet the energy scarcity. The improvement programme content will be taught by eminent experts in the field, having adequate teaching and industrial experience. This programme will offer a unique opportunity to the researchers, academicians and students working in this area to acquire knowledge in current and relevant topics in Electrical & Electronics Engineering. This FDP provides deeper insight and knowledge to the participants about the recent advances in Electrical & Electronics Engineering field.

The main objective of this programme is to provide good opportunities for the different experts, academia, professional and faculty members to have an insight about remarkable advancement and innovations in Electrical and Electronics Engineering. Further this program will help the faculty members to strengthen their technological base by bringing research culture and promoting creative adaptation, innovation and utilization through interaction between institutes of learning.



TOPICS COVERED:

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| 1. Renewable Energy. | 12. Signals & Systems. |
| 2. Application of SCADA in Power System. | 13. Advancements in converters. |
| 3. Electric Vehicles. | 14. Power System Stability Improvements. |
| 4. Biomedical Instrumentations. | 15. Nano Electronics. |
| 5. Deep Learning & Machine Learning. | 16. Microgrid & Smart Grid. |
| 6. Pattern recognition. | 17. Distributed Generation. |
| 7. Control Engineering. | 18. Electronics Waste Management. |
| 8. Computer Vision. | 19. HVDC transmission & FACTS. |
| 9. IOT in Power System. | 20. Design of PV system. |
| 10. Power System operation & Control. | 21. Cadence Tool for VLSI. |
| 11. Industrial Automation. | 22. Wireless sensors & network |

VISION OF THE UNIVERSITY

To be among the best of the institutions for engineers and technologists with attitudes, skills and knowledge and to become an epicenter of creative solutions.

MISSION OF THE UNIVERSITY

To achieve and impart quality education with an emphasis on practical skills and social relevance.

RESOURCE PERSONS

Session will be handled by eminent Persons from reputed institutes

INTERNAL RESOURCE PERSON:

1. Dr. Binod Kumar Choudhary, Assistant Professor, Department of Engg; AJU
2. Dr. Akshay Kumar, Assistant Professor, Department of Engg; AJU
3. Kumaresh Pal, Assistant Professor, Department of Engg; AJU
4. Prof. Md. Sazzad, Assistant Professor, Department of Engg; AJU
5. Prof. Kundan Kr. Pramanik, Assistant Professor, Department of Engg; AJU
6. Prof. Amit Prakash Sen, Assistant Professor, Department of Engg; AJU

EXTERNAL RESOURCE PERSON:

1. Dr. Abhilash Ravi kumar, Assistant Professor, Department of Electronics and Communication Engineering, School of Engineering, Amrita Vishwa Vidyapeetham, Bengaluru Campus.
2. Prof. Saket Saurabh, Assistant Professor, EEE Katihar Engineering College, Department of Science & Technology, Patna
3. Dr. Amrit Mukherjee, Assistant Professor, University of South Bohemia, Cske Budejovice , Czech Republic
4. Dr. Rajesh Panda, Assistant Professor, Indian Institute of Engineering, Science & Technology, Shibpur, Howrah
5. Dr. Amar Kumar Barik, Assistant Professor, Institute of Technology, Nirma University, Ahmedabad
6. Prof. Keshav Prasad Patel, Business Development Manager, Sai Design & Software Solutions, Bhopal, MP

REGISTRATION

- 1 Registration Fee is Rs 100/- Per Participant
- 2 Selected Participants Should Attend Programme for the entire duration through online (Virtual Mode)
- 3 E-Certificate will be provided for all the participants upon the successful completion of the program.
- 4 80% participation attendance and minimum of 60 percentage marks from the final evaluation test.

IMPORTANT DATE

LAST DATE FOR REGISTRATION: 09.01.2022

REGISTRATION LINK

<https://forms.gle/qJSRjDnfFGDtWtiz7>

WHATSAPP CHAT GROUP

<https://chat.whatsapp.com/CcfM3WoXOKCDA0VeeaHZ6u>



SCAN CODE TO REGISTER



CHIEF PATRON

Prof. (Dr.) S.S. Razi, V.CAJU

PATRON

Mr. Amit Shrivastav, Director AJU

ADVISORY COMMITTEE

Mr. Jasbir Dhanjal, Registrar, ARKA JAIN University

Dr. Angad Tiwary, Dean Student Welfare, ARKA JAIN University

Mr. Arvind Kumar, Programme Co-ordinator, ARKA JAIN University

Dr. Anupam Kumari, Asst. Prof., Department of Engineering, ARKA JAIN University

Dr. Binod Kr. Choudhary, Asst. Prof, Department of Engineering, ARKA JAIN University

CONVENOR

Mr. Ashwini Kumar, Asst. Prof, ARKA JAIN University

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CO-ORDINATOR

Prof. Kumaresh Pal,

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Prof. Md. Sazzad,

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ORGANIZING COMMITTEE

Dr. Binod Kr. Choudhary, Asst. Prof, Department of Engineering, ARKA JAIN University

Dr. Keerti Rai, Asst. Prof., Department of Engineering, ARKA JAIN University

Prof. Kundan Kr. Pramanik, Asst. Prof. Department of Engineering, ARKA JAIN University

Prof. Amit Prakash Sen, Asst. Prof., Department of Engineering, ARKA JAIN University

Dr. Anupam Kumari, Asst. Prof., Department of Engineering, ARKA JAIN University

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TECHNICAL COMMITTEE

Mr. Chandan Kumar, Technical Assistant. Department of Engineering, ARKA JAIN University

Ms. Soni Kumari, Technical Assistant, Department of Engineering, ARKA JAIN University

Ms. Mallika Kumari, Technical Assistant, Department of Engineering, ARKA JAIN University