



**Centurion**  
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*Shaping Lives...*  
*Empowering Communities...*

## **FACULTY DEVELOPMENT PROGRAMME-2024** **on**

### **Leveraging Artificial Intelligence in Engineering: Innovations, Applications, and Future Trends**

**24th to 29th June 2024**



**SCHOOL OF ENGINEERING AND TECHNOLOGY  
CENTURION UNIVERSITY OF TECHNOLOGY  
AND MANAGEMENT, ODISHA**

**[www.cutm.ac.in](http://www.cutm.ac.in)**

# A REPORT

on

**Faculty Development Program**

*“Leveraging Artificial Intelligence in Engineering:  
Innovations, Applications, and Future Trends”*



**Centurion**  
**UNIVERSITY**

*Shaping Lives...  
Empowering Communities...*

**School of Engineering & Technology**

**Centurion University of Technology & Management (CUTM)**

**Odisha**

**Six-Days FDP on  
Leveraging Artificial Intelligence in Engineering: Innovations, Applications, and Future Trends**

## Overview

Centurion University of Technology and Management, Odisha conducted a six Days Faculty Development Program in hybrid mode on the topic “**Leveraging Artificial Intelligence in Engineering: Innovations, Applications, and Future Trends**” from **24<sup>th</sup> to 29<sup>th</sup> June 2024**, a Self-Financed program. Around one hundred fifty Faculty members, Research Scholars and Teaching Assistants from different departments and schools of CUTM Bhubaneswar and PKD campus in this FDP.

The course content of the FDP was designed for the participants to learn about the current research happenings in the application of AI in different Engineering disciplines Manufacturing, Thermal engineering, Engineering Design, Healthcare, E-Vehicle, Geoscience and environmental sustainability and research areas. The following Technical Experts delivered their lectures on related fields of FDP to enlighten the knowledge of participants throughout the 14 sessions of this six days FDP. The speakers were called from top institutes and universities across India.

This program was inaugurated by the Prof. Supriya Pattanayak, Vice-Chancellor, Mr. Ajay Kumar Nayak, Pro Vice-Chancellor, Prof. Jagannath Padhi, Director, CUTM, Bhubaneswar campus and Dr. Sujata Chakraborty, Dean, SoET, Bhubaneswar campus, Prof. (Dr.) Prafulla Panda, Dean, SoET, PKD campus.

The whole FDP was coordinated by Dr. Sujata Chakravorty. The program was appreciated by all participants and Technical Experts.



## Resource Persons

### Dr. Siba Sankar Mahapatra, Professor (HAG), NIT Rourkela, Odisha

**Education:**

- Ph.D. Indian Institute of Technology, Kharagpur in 1999.

**Research Area:**

Additive Manufacturing; Non-traditional Machining; Soft Computing; Prediction Tools; Non-traditional Optimization; Modelling & Simulation.

### Dr. Yuvaraju Chinnam, Blue Eye Soft corp., South Carolina, USA

**Education:**

- PDF in Creative leadership for Innovation and Change
- Ph.D. , Geo-spatial Technologies and Soft computing tools
- M.Tech, Spatial Information Technology
- B.Tech., Computer Science Engineering

**Experience:**

- IISSR(T-Hub)
- Blue Eye Soft Corp., U.S.A.
- Leverages 17 years Research expertise in data analysis, prediction model, AI/ML

### Dr. Sanjay Saxena, Assistant Professor, Department of Computer Science & Engineering, IIT Bhubaneswar, Odisha

**Education:**

- Ph.D (Computer Science & Engineering), IIT BHU, Varanasi
- PDF , University of Pennsylvania

**Research Area:**

- Data Science, Medical Image Analysis, Machine & Deep Learning, Artificial Intelligence, Radiomics & Radio genomics. He teaches Data Science for AI in Healthcare, Data Analytics & Computing, Java Programming, and Data Structure.

**Dr. Debi Prosad Dogra, Associate Professor, Associate Head, School of Electrical Sciences, IIT Bhubaneswar, Odisha**



**Education:**

- Ph.D. Computer Science & Engineering, IIT Kharagpur, 2012
- M.Tech, Computer Science & Engineering, IIT Kanpur, 2003
- B. Tech, Computer Science & Engineering, Haldia Institute of Technology, 2001

**Research Area:**

- Visual Surveillance
- Augmented Reality
- Human Computer Interface

**Dr. PSR Srinivasa Sastry, Former Outstanding Scientist and Founder Director DSP Laboratory, DRDO, Hyderabad**



**Education:**

- Ph.D, Jadavpur University, 2019

**Research Area:**

- ISRO Inertial Systems Unit ISRO, Trivandrum up to 1999.
- Solar Array Drive Electronics for IRS, CARTOSAT, INSAT
- GSAT Series of Satellites.

**Dr. Rakesh Chandra Balabantaray, Associate Professor and Dean (Academics), Dept. of Computer Science & Engineering, IIIT Bhubaneswar, Odisha**



**Education:**

- Ph.D., Utkal University, Odisha, 2008
- M. Tech, Utkal University, Odisha, 2001
- M.Phil (Math), Utkal University, Odisha, 1999

**Research Area:**

- Natural Language Processing
- Information Retrieval
- Artificial Intelligence

**Dr. Tripti Swarnkar, Professor, Department of Computer Applications, National Institute of Technology (NITRR) Raipur**



**Education:**

- Ph.D, Computer Science and Engineering, IIT Kharagpur
- M.Tech., Computer Science and Engineering, IIT Kharagpur

**Research Area:**

- Machine Learning,
- Deep Learning, Medical Omics Data
- Image Data Analysis

**Dr Ranjan Kumar Behera, Associate Professor, Department of Electrical Engineering, IIT Patna**



**Education:**

- Ph.D., Electrical Engineering, IIT Kanpur, 2020
- M. Tech., Electrical Engineering, NIT Rourkela, Odisha, 2003
- B.E., Electrical Engineering, Regional Engineering College (now NIT) Rourkela, Odisha, 1998

**Research Area:**

- Power Electronics Circuits, Control of Electrical Drives, Application of Nonlinear Control Theory to Power Electronics and Electric Drives, Pulse Width Modulation Techniques for Power Electronics, Renewal Energy Integration

**Dr. Mihir Narayan Mohanty, Professor, Department of Electronics and Communication Engineering, Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India**



**Education:**

- Ph.D, BioChemical Engineering, University of Malaya, 2003
- M.Sc Chemical and Envi. Engg., University Putra Malaysia, 1998
- B.Sc Chemical Engineering, JUST, 1996.

**Research Area:**

- Intelligent Signal Processing
- Advanced Machine Learning
- Multimodal Data Processing

**Dr. Yunus Ali Pulpadan, Assistant Professor, Department of Earth and Environmental Sciences, IISER, Mohali**



**Education:**

- Ph.D., Department of Natural Environmental Studies, The University of Tokyo, Japan, 2014
- M.Sc. Center for Remote Sensing, Bharathidasan University, India, 2009
- B.Sc. Department of Geology, Aligarh Muslim University, India, 2007

**Research Area:**

- Geomorphology
- Remote Sensing and GIS,
- Disaster Mitigation

**Six-Days FDP on  
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**Dr. Indrajit Sarkar, Assistant Professor, NIT Rourkela, Odisha**



**Education:**

- PhD., Electrical Engineering, IIT Bombay, Powai, 2018
- MSc. Electrical Engineering, IEST Shibpur, Howrah, 2012
- BE., Electrical Engineering, IEST Shibpur, Howrah, 2005

**Research Area:**

- DAB and TAB converter based bi-directional EV charging systems
- Interlinking converter and control in hybrid micro-grid applications
- Cascaded H-bridge Multi-level Converter
- Multilevel Converters Topologies
- High Power Induction Motor Drive
- Converter control and applications

**Dr. Puspanjali Mohapatra, Principal Scientist at CSIRO, Australia**



**Education:**

- Ph.D, Chemical Engineering, University of Sydney, 2002
- M.Sc Energy Engineering, University of Wales, 1997

**Research Area:**

- Data mining
- Soft Computing
- Bioinformatics
- Artificial Intelligence
- Recommender Systems

**Schedule of the FDP**

Day	Date	Session-1 (10.00am to 11.30am)		Session-2 (11.45am to 01.15 pm)		Session-3 (2.15pm to 3.45 pm)		Session-4 (4.00 pm to 5.30 pm)
Day-1	24/06/2025 (Monday)	<b>Innaguration</b>	<b>Tea Break</b>	Dr. S. S. Mahapatra, NIT Rourkela (Online)	<b>Lunch</b>	Practice Session on Video Processing, Dr. Sasmita Nayak, CUTM BBSR	<b>Tea Break</b>	Practice Session on Video Processing, Dr. Sasmita Nayak, CUTM BBSR
Day-2	25/06/2025 (Tuesday)	Dr. Yuvaraju Chinnam (Online)		Dr. Sanjay Saxena, IIIT Bhubaneswar (Offline, BBSR)		Practice Session on Image Processing, Dr. Sujata Chakravarty, CUTM BBSR		Practice Session on Image Processing, Dr. Sujata Chakravarty, CUTM BBSR
Day-3	26/06/2024 (Wednesday)	Dr. Debi Prasad Dogra, IIT Bhubaneswar (Offline, BBSR)		Dr. PSR S. Sastry DRDO (Online)		Dr. Rakesh Balabantray, IIIT Bhubaneswar (Offline, BBSR)		Dr. Tripti Swarnkar, NIT Raipur(Online)
Day-4	27/06/2027 (Thursday)	Dr. Ranjan Kumar Behera IIT Patna (Offline, PKD)		Dr. Mihir M Mohanty (Offline, BBSR)		Practice Session on Optimization Technique, Dr. Rajendra Kumar Khadanga, CUTM BBSR		Practice Session on Optimization Technique, Dr. Rajendra Kumar Khadanga, CUTM BBSR
Day-5	28/06/2028 (Friday)	Dr. Yunus Ali Pulpadan (Online)		Dr. Indrajit Sarkar (Online)		Hands on Practice on ChatGPT, Mrs. Swarna Prabha Jena, CUTM BBSR		Hands on Practice on ChatGPT, Mrs. Swarna Prabha Jena, CUTM BBSR
Day-6	29/06/2029 (Saturday)	Dr. Puspanjali Mahapatra, IIIT Bhubaneswar (Offline, BBSR)	<b>Valedictory</b>					

**Six-Days FDP on  
Leveraging Artificial Intelligence in Engineering: Innovations, Applications, and Future Trends**

**Day 1**

**Date: 24<sup>th</sup> June 2024**

**Session 1: Inauguration**

**Time: 10.00 AM**

**Number of Participants: 122**

**Deliberation on the Session:**

This program was inaugurated by the Prof. Supriya Pattanayak, Vice-Chancellor, Mr. Ajay Kumar Nayak, Pro Vice-Chancellor, Prof. Jagannath Padhi, Director, CUTM, Bhubaneswar campus and Prof. (Dr.) Sujata Chakraborty, Dean, SoET, Bhubaneswar campus, Prof. (Dr.) Prafulla Panda, Dean, SoET, PKD campus.

Prof. Supriya Pattanayak highlighted the use of technology for serving the mankind and the mankind/users shouldn't be slaves of AI.

Prof. Jagannath Padhi highlighted that the present society can't escape from the application of AI but should be careful of the negative effects of AI on the society at large.

Mr. Ajay Kumar Nayak appreciated the emergence AI and related with the higher education sector of India. He further emphasized the responsible of teachers to leverage the AI input for enhancing the ability of the students.

Prof. (Dr.) Prafulla Panda focussed the different aspects of AI.

At last, Prof. (Dr.) Sujata Chakraborty clarified that AI is a vast area which has entered into all phases of the life. She iterated that though it seems simple and complex but not difficult to understand. She emphasized to learn from AI, specially to all the research scholars and in general to all the faculty participants.

**Glimpses of the Session:**



**Six-Days FDP on  
Leveraging Artificial Intelligence in Engineering: Innovations, Applications, and Future Trends**

**Day 1**

**Date: 24<sup>th</sup> June 2024**

**Session 2: Dr. Shiv Sundar Mohapatra**

**Time: 11.45 AM**

**Topic: Classification of nature inspired optimization techniques**

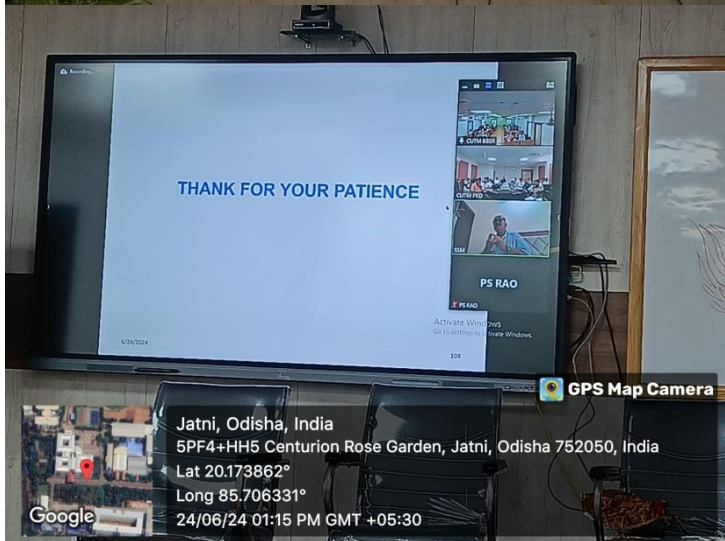
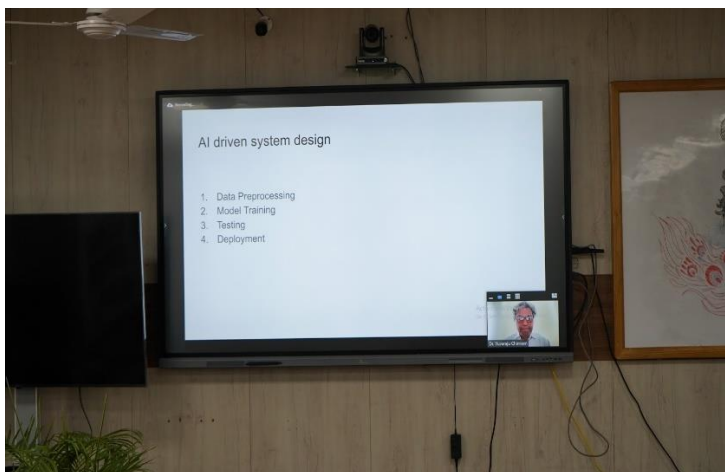
**Number of Participants: 116**

**Deliberation on the Session:** The broad outline of his presentation highlighted four critical areas such as

- 1) Evolutionary techniques
- 2) Swarm intelligence techniques
- 3) Physics based techniques
- 4) Human related techniques

He highlighted single objective optimization, multi objective optimization and constraint of multi objective optimization in traditional techniques. He further clarified that application of AI tools can be integrated with multi objective optimization techniques for more efficiency and better results. The speaker presented 2 distinct concepts such as exploration and exploitation which has more prominent applications in these techniques. At last, the speaker emphasized the optimization techniques which are nature inspired and blended with application of AI can bring significant impact in the field of science and engineering.

**Glimpses of the Sessions:**



**Six-Days FDP on  
Leveraging Artificial Intelligence in Engineering: Innovations, Applications, and Future Trends**

**Day 2**

**Date: 25<sup>th</sup> June 2024**

**Session 1: Dr. Yuvaraju Chinnam**

**Time: 10.00 AM**

**Topic: Towards responsible and sustainable AI driven Earth monitoring**

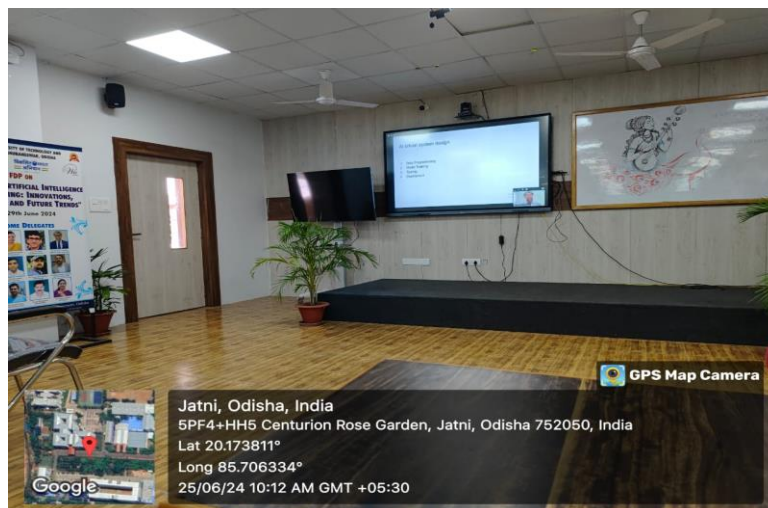
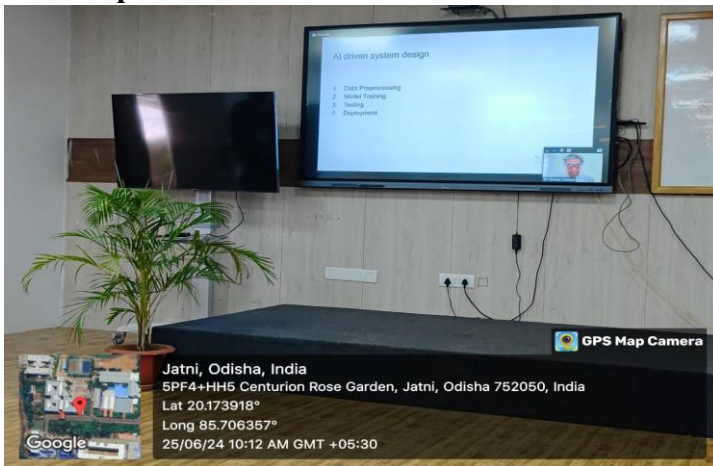
**Number of Participants: 113**

**Deliberation on the Session:** The broad outline of his presentation highlighted three critical areas such as

- 1) Concept of AI
- 2) AI Modelling
- 3) AI applications in the industry

He described model design and tuning, different hardwares, Accelerated learning and interoperability. The speaker also presented a new concept – responsible AI, further deliberations on the challenging field of Pattern recognition, obstacle avoidance, fully supervised training and semi supervised training etc. He cited the high-end applications by NASA like SDO-Solar diagnostic observations and Aditya L1 mission by India. The speaker further highlighted one area of sensitive mapping which is applicable for various defense establishments and national security points. He concluded his session which emphasizes of robust modelling for AI security for various ethical considerations in the society.

**Glimpses of the Session:**



**Six-Days FDP on  
Leveraging Artificial Intelligence in Engineering: Innovations, Applications, and Future Trends**

**Day 2**

**Date: 25<sup>th</sup> June 2024**

**Session 2: Dr. Sanjay Saxena**

**Time: 11.45 AM**

**Topic: Enhancing Neuro-Oncology diagnostics and treatment with Generative AI: The role of GANs in Brain Tumor Analysis**

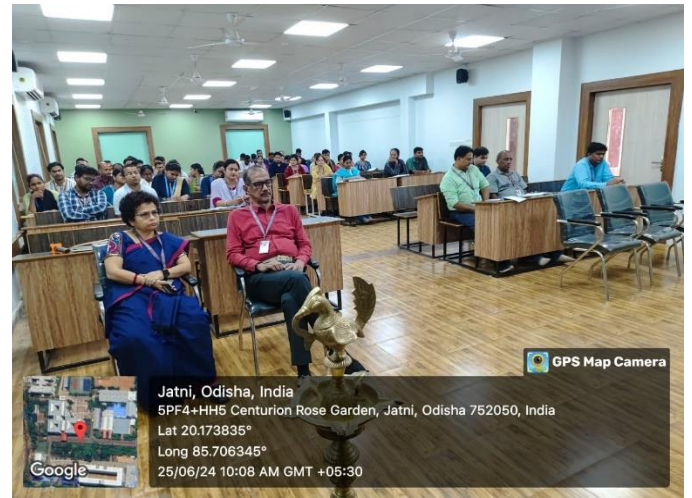
**Number of Participants: 121**

**Deliberation on the Session:** At the start of the session, he highlighted the growing disease and concerns of brain tumors in society and healthcare sectors. So, he emphasized on the applications of AI tools in the medical field to reduce the burden of medical expenditure and agony of human beings effected by the disease. The broad outline of his presentation highlighted various critical areas such as

- 1) GANs (Generative Adversarial Network)
- 2) Concept of Generators
- 3) Concept of Discriminators

He further simplified the concepts of culmination neural network and artificial neural network. He interlinked the Generative AI algorithm which can create new contents such as images, videos etc with recorded videos and experimental outcomes. He shown some medical case study research outputs with brain tumor images which could help the doctor for better diagnosis and accurate predictions.

**Glimpses of the Session:**



**GPS Map Camera**  
Jatni, Odisha, India  
5PF4+HH5 Centurion Rose Garden, Jatni, Odisha 752050, India  
Lat 20.173835°  
Long 85.706345°  
25/06/24 10:08 AM GMT +05:30



**Six-Days FDP on  
Leveraging Artificial Intelligence in Engineering: Innovations, Applications, and Future Trends**

**Day 3**

**Date: 26<sup>th</sup> June 2024**

**Session 1: Prof. (Dr.) Debi Prasad Dogra**

**Time: 10.00 AM**

**Topic: Application of AI for workforce management**

**Number of Participants: 125**

**Deliberation on the Session:**

At the start of the session, he highlighted the application of computer vision for prompt and accurate monitoring. He further highlighted the application of AI should be useful for the community, which will be greatly affected by the outcome of AI. He also mentioned the Quillbot paraphrasing tools and other tools. He also described the “Turing Test” in detail. He cited some interesting AI applications with examples of an aircraft flying from Bhubaneswar to Delhi generating some terra bytes of data, matching an Afghanistan girl with her mother by using IRIS datasets, and most disruptive Generative AI. Lastly, he anticipated that human creativity shouldn't be spoiled by the increase in the use of Generative AI tools.

**Glimpses of the Session:**



**Six-Days FDP on  
Leveraging Artificial Intelligence in Engineering: Innovations, Applications, and Future Trends**

**Day 3**

**Date: 26<sup>th</sup> June 2024**

**Session 2: Prof. (Dr.) PSR Shastry**

**Time: 11.45 AM**

**Topic: From Equations to Intelligence. The math behind machine learning**

**Number of Participants: 117**

**Deliberation on the Session:**

He started his session with a brief introduction to ML. He enunciated four pillars of AIs: Linear algebra, Calculus, probability and statistics. He described various optimization techniques and network topologies in detail. He further highlighted critical aspects of various responses in the form of images like Gradient ascent (Concave) and Gradient descent (Convex).

**Glimpses of the Session:**



**Day 3**

**Date: 26<sup>th</sup> June 2024**

**Session 3: Prof. (Dr.) Rakesh Balabantray**

**Time: 02.15 PM**

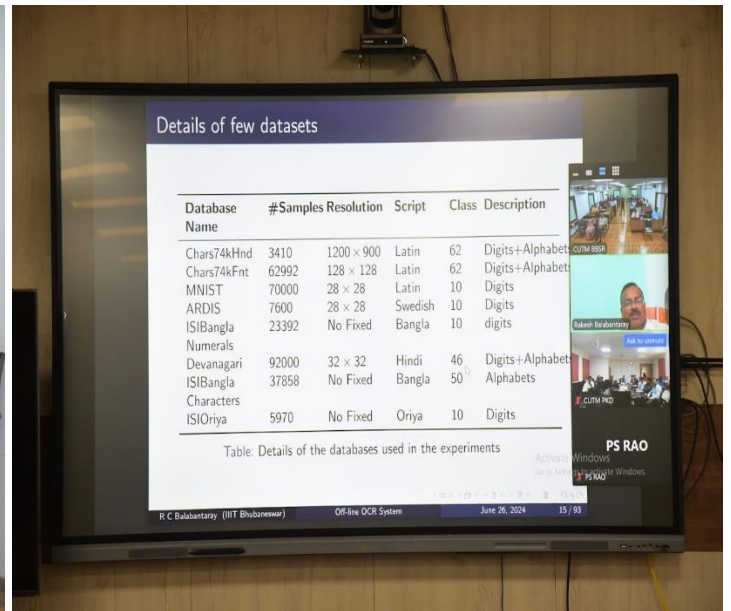
**Topic: Script-Independent feature extraction techniques for handwritten character recognition**

**Number of Participants: 113**

**Deliberation on the Session:**

He highlighted on concepts of feature recognition, segmentation and the process of slicing with multiple examples. His work focused on the creation and recognition of the Odia handwriting character database. He emphasized on the application of AI dealing with odia compound characters. His highlighted points were related to AMS, CTD, FOG etc.

**Glimpses of the Session:**



**Six-Days FDP on  
Leveraging Artificial Intelligence in Engineering: Innovations, Applications, and Future Trends**

**Day 3**

**Date: 26<sup>th</sup> June 2024**

**Session 4: Prof. (Dr.) Tripti Swarnakar**

**Time: 04.00 PM**

**Topic: Generative AI and Healthcare**

**Number of Participants: 127**

**Deliberation on the Session:**

She started with the concept of machine learning as per different scientists. She highlighted a comparison between ML and DL, the evolution of AI with time and various types of Generative AIs like variation auto-encoders, GAN and auto-regression models. She emphasized medical informatics and related it to various AI tools like ChatGPT and ChatGPT3. Her presentation mainly focused on the growing use of DL in medical informatics and biomedical fields. Her research includes the challenges of removing the queue of patients in various hospitals.

**Glimpses of the Session:**



**Six-Days FDP on  
Leveraging Artificial Intelligence in Engineering: Innovations, Applications, and Future Trends**

**Day 4**

**Date: 27<sup>th</sup> June 2024**

**Session 1: Prof. (Dr.) Ranjan Kumar Behera**

**Time: 10.00 AM**

**Topic: Design of Electric vehicle and traction motor control**

**Number of Participants: 131**

**Deliberation on the Session:**

The speaker highlighted the problem statements related to the use of EVs for specially-abled individuals, public places, first and last-mile rides and children's play. He presented the global mobility scooter market scenario and its competitive landscapes. He also presented various laboratory developments and set-ups for motor design and control strategies. His international collaboration with Abu-Dhabi, Singapore etc. was presented. One of the critical focuses of his research was the customized design of motors of the Indian Navy. The last portion of his presentation highlighted the challenges of vehicle dynamic modelling.

**Glimpses of the Session:**



**Day 4**

**Date: 27<sup>th</sup> June 2024**

**Session 2: Prof. (Dr.) Mihir M. Mohanty**

**Time: 11.45 AM**

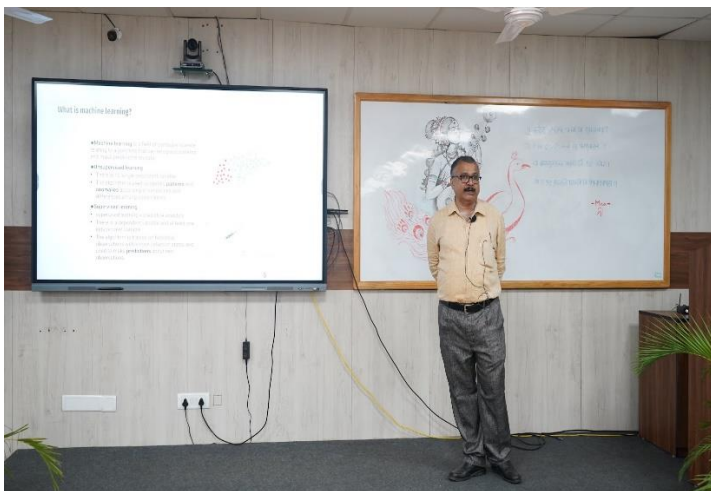
**Topic: Transformative insights: Machine learning for Diabetic Detection in Global healthcare**

**Number of Participants: 109**

**Deliberation on the Session:**

The speaker explained the intricacies of design and prediction. He further emphasized on the predictive analysis with ML. He also elaborated on the analogy of IOT to IOMT (Internet of Medical Things) in the medical field shortly. The speaker presented a detailed view of the data and analytics in the industry, the concept of predictive analysis, supervised, unsupervised learning and optimization with lifetime examples. He clarified certain aspects of astrological predictions with engineering predictions. Finally, he presented a few new concepts in details like logistics regression, ML approaches for diabetic detection, diagnostic tools and systems of the future with challenges, and developing real models for precision oncology.

**Glimpses of the Session:**



**Six-Days FDP on  
Leveraging Artificial Intelligence in Engineering: Innovations, Applications, and Future Trends**

**Day 5**

**Date: 28<sup>th</sup> June 2024**

**Session 1: Prof. (Dr.) Yunus Ali Pulpadan**

**Time: 10.00 AM**

**Topic: Learning AI and ML in landslide susceptible modelling**

**Number of Participants: 115**

**Deliberation on the Session:**

The speaker explained landslide susceptible mapping, the difference between statistics and ML, data key to ML, and statistical learning in landslide studies. He explained three categories of landslides triggered by landfall, earthquakes and sudden. His key points were SRTM modelling, feature selection for LSM information gain calculation, rapidly evolving controlling factors and how to select the models for specific problems. At last, there were lots of questions from the participants, such as predicting the intensity of LS which was answered eloquently.

**Glimpses of the Session:**



**Day 5**

**Date: 28<sup>th</sup> June 2024**

**Session 2: Prof. (Dr.) Indrajit Sarkar**

**Time: 11.45 AM**

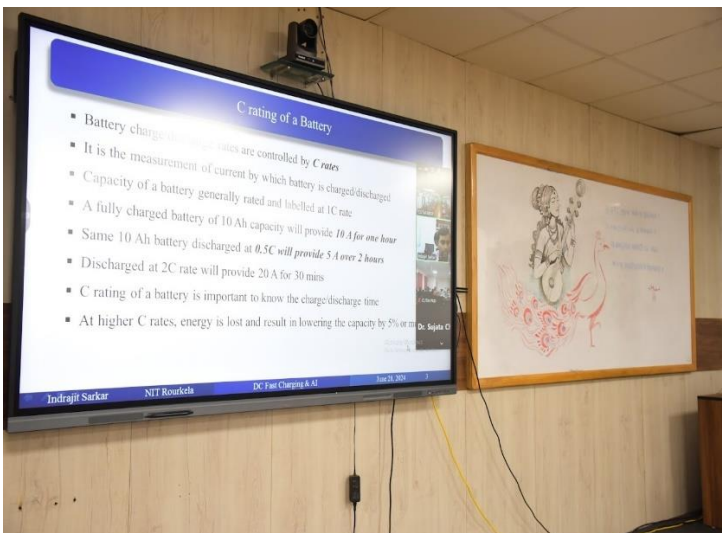
**Topic: Impact of EV charging and charge scheduling using machine learning**

**Number of Participants: 117**

**Deliberation on the Session:**

The speaker explained the concepts of Li-ion batteries, DC fast charging, and the various challenges like charging E-Rickshaw, charging through renewable energy sources, and waiting for customers. He expanded his talk on the subject of state-of-the-art DC fast chargers, uncoordinated charging schemes, optimization of charging schedules, smart charging and application of AI for the selection of grids, operators and the health of batteries, etc. He concluded his discussion by citing the use of intelligent charging strategies.

**Glimpses of the Session:**



**Six-Days FDP on  
Leveraging Artificial Intelligence in Engineering: Innovations, Applications, and Future Trends**

**Day 6**

**Date: 29<sup>th</sup> June 2024**

**Session 1: Prof. (Dr.) Puspanjali Mahapatra**

**Time: 10.00 AM**

**Topic: Decoding evolving Intelligence: A journey through Evolutionary Computing**

**Number of Participants: 121**

**Deliberation on the Session:**

Prof. (Dr) Puspanjali Mahapatra delivered the first session on “Decoding evolving Intelligence: A journey through Evolutionary Computing”. The speaker differentiated the concepts of AI and Evolutionary Intelligence. He further highlighted the concept of computational Intelligence, the gallery of Evolutional computing and the classification of Meta-heuristic algorithms and pioneers with their national and world-level contributions. He closed his sessions by highlighting a few methods of multi-objective optimization and feature selection techniques.

**Glimpses of the Session:**



**Six-Days FDP on  
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**Sample Copy of Attendees:**



**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**  
School of Engineering and Technology, Bhubaneswar  
Faculty Development Programme 2024  
On Leveraging Artificial Intelligence in Engineering: Innovations,  
Applications and Future Trends (Dt.24th June 2024 - 29th June 2024)  
**ATTENDANCE SHEET**

Date: 24th June 2024      SESSION: 2      Time: 11.45 A.M

Sr. No	Name	Department	Signature
1	Dr. Sujata Chakravarty	CSE	[Signature]
2	Prof. Jagannath Padhi	EEE	[Signature]
3	Dr. Sangram Keshari Swain	CSE	[Signature]
4	Mr. Raj Kumar Mohanta	CSE	[Signature]
5	Dr. Sasmitha Kumari Nayak	CSE	[Signature]
6	Mr. Suwendu Kumar Nayak	CSE	[Signature]
7	Mr. Rakesh Kumar Ray	CSE	[Signature]
8	Mr. Sunil Kumar Mohapatra	CSE	[Signature]
9	Mr. Saneev Kumar Das	CSE	[Signature]
10	Ms. Arpita Senapati	CSE	[Signature]
11	Mr. Saroj Kumar Sahoo	CSE	[Signature]
12	Mr. Rasmi Prakash Swain	CSE	[Signature]
13	Mrs. Swarupa Pattanaik	CSE	[Signature]
14	Mr. Satyananda Swain	CSE	[Signature]
15	Chitta Ranjan Behera	CSE	[Signature]
16	Harapriya Senapati	CSE	[Signature]
17	Ankita Biswal	CSE	[Signature]
18	Sabyasachi Mohanty	CSE	[Signature]
19	Adyasha Swain	CSE	[Signature]
20	Anisha Mukharjee	CSE	[Signature]
21	Anirban Bhattacharya	CSE	[Signature]

22	Susmita Sikdar	CSE	[Signature]
23	Nibedita Sahoo	CSE	[Signature]
24	Sanghamitra Panda	CSE	[Signature]
25	Debasish Swapnesh Kumar Nayak	CSE	[Signature]
26	Sushant Meher	CSE	[Signature]
27	Dr. Harish Chandra Mohanta	ECE	[Signature]
28	Dr. Satyasis Mishra	ECE	[Signature]
29	Dr. Chinmayee Dora	ECE	[Signature]
30	Dr. Chandra Sekhar Dash	ECE	[Signature]
31	Mrs. Swarna Prabha Jena	ECE	[Signature]
32	Mr. Subrat Kumar Pradhan	ECE	[Signature]
33	Mr. Nimay Chandra Giri	ECE	[Signature]
34	Dr. Smrutil Ranjan Nayak	ECE	[Signature]
35	Dr. Rajendra Kumar Khadanga	EEE	[Signature]
36	Dr. Sudhansu Kumar Samal	EEE	[Signature]
37	Dr. Amit Kumar Sahoo	EEE	[Signature]
38	Mr. Rama Prasanna Dalai	EEE	[Signature]
39	Mr. Swakantik Mishra	EEE	[Signature]
40	Mr. Surya Narayan Sahu	EEE	[Signature]
41	Dr. Ramesh Ch. Mohanty	ME	[Signature]
42	Dr. A.M. Mohanty	ME	[Signature]
43	Dr. Mukundajee Pandey	ME	[Signature]
44	Mr. Manas Ranjan Padhi	ME	[Signature]
45	Mr. Dillip Kumar Mohanta	ME	[Signature]
46	Ms. Debasree Debadatta Behera	ME	[Signature]
47	Dr. Kamal Kumar Barik	CE	[Signature]
48	Dr. Saine Sikta Dash	CE	[Signature]
49	Dr. Jyoti Prakash Giri	CE	[Signature]

50	Dr. Deepak Kumar Sahu	CE	[Signature]
51	Mr. Rakesh Behera	Mining	[Signature]
52	Dr. Biranchi Prasad Mishra	Aerospace	[Signature]
53	Mr. Chandra Sekhar jena	Teaching Assistant	[Signature]
54	Mr. Suraj Samantaray	Teaching Assistant	[Signature]
55	Mr. Subham sahu	Teaching Associate	[Signature]
56	Mr. Shatabdi Ghadei	Teaching Associate	[Signature]
57	Ms. Maitreyee Mohanty	Teaching Assistant	[Signature]
58	Mr. Trilochan sahu	Teaching Assistant	[Signature]
59	Ms. Tanushree Mistry	Teaching Assistant	[Signature]
60	Ms. Nutan Das	Teaching Associate	[Signature]
61	Ms. Disha Mohanty	Teaching Associate	[Signature]
62	Mr. Nareish Kanungo	Teaching Associate	[Signature]
63	Mr. Goutam Modak	Senior Teaching Assistant, Project Associate	[Signature]
64	Saswat Panda	Ph.D Scholar	[Signature]
65	Tapas Kumar Panda	Ph.D Scholar	[Signature]
66	Ms. Rashel Kherbek	Ph.D Scholar	[Signature]
67	Ms. Soheila Ghulami	Ph.D Scholar	[Signature]
68	Avinash Kumar Singh	Ph.D Scholar	[Signature]
69	N.Laxmidhar Reddy	Ph.D Scholar	[Signature]
70	Rati Ranjan Mishra	Ph.D Scholar	[Signature]
71	subhalipsa Das	SoET	[Signature]
72	Aniya Chand Panda	Aerospace	[Signature]
73	Siba Prasad Mishra	Civil	[Signature]
74	Dr. Santosh Prasad Sahoo	Mech	[Signature]
75	Santanu Kumar Sutar	Mech	[Signature]
76	Smarajit Mohanty	EEE	[Signature]

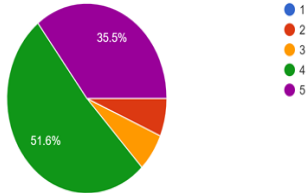
77	Jyoti Kishore Behera	SoET	[Signature]
78	Bulu Nahak	Mech	[Signature]
79	Sanjeeb Patanaik	SoET	[Signature]
80	Manas Ranjan Mishra	SoET	[Signature]
81	Manas Ranjan Tripathy	CSE	[Signature]
82	Tanmay Kumar Panda	SoET	[Signature]
83	Biswajit Mohanty	SoET	[Signature]
84	Dr. D.K.Sahoo	SoET P&P	[Signature]
85	Sangram Kishore Rautray	SoET (CSE) / SoET (Mech)	[Signature]
86	Bhabani Dash	SoET	[Signature]
87	G.V.L.Priyansa	CSE	[Signature]
88	Sudhishmita Nayak	SoET	[Signature]
89	Dr. Santosh Prasad Sahu	CSE SoET	[Signature]
90	ANIYA CHAND PANDA	AEROSPACE	[Signature]
91	Dr. DK Sahoo	SoET	[Signature]
92	Wibond av Barua	CSABE SoET	[Signature]
93	Bishrupada Kamila	SoET	[Signature]
94	Sarmistha Senapati	SoET	[Signature]

[Signature]  
Dean, SoET  
Centurion University of Technology & Management  
Odisha

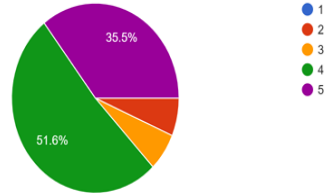
## Six-Days FDP on Leveraging Artificial Intelligence in Engineering: Innovations, Applications, and Future Trends

### Response from Participants:

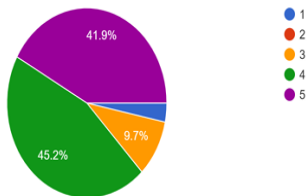
(24/06/2024) Session-1: Engineering Optimization: A New Perspective By Dr. S. S. Mahapatra, NIT Roukela  
31 responses



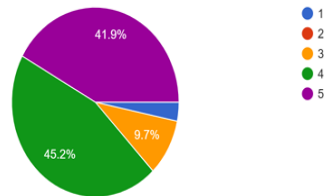
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31 responses



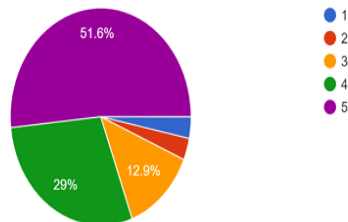
(25/06/2024) Session-1: TOWARDS RESPONSIBLE AND SUSTAINABLE AI-DRIVEN EARTH MONITORING By Dr. Yuvaraju Chinnam (Online)  
31 responses



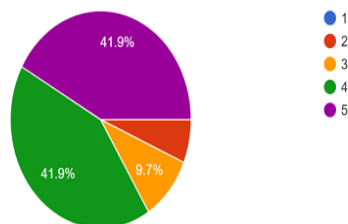
(25/06/2024) Session-1: TOWARDS RESPONSIBLE AND SUSTAINABLE AI-DRIVEN EARTH MONITORING By Dr. Yuvaraju Chinnam (Online)  
31 responses



(27/06/2024) Session-1: Advanced Traction Motor Control and EV Design By Dr. Ranjan Kumar Behera IIT Patna(Offline, PKD)  
31 responses



(28/06/2024) Session-2: Impact of EV Charging and Charge Scheduling Using Machine Learning By Dr. Indrajit Sarkar(Online)  
31 responses



**Six-Days FDP on  
Leveraging Artificial Intelligence in Engineering: Innovations, Applications, and Future Trends**

**Validictory Session:**



In conclusion, the FDP on "*Leveraging Artificial Intelligence in Engineering: Innovations, Applications, and Future Trends*" has provided invaluable insights into the transformative impact of AI on engineering applications. This has explored groundbreaking innovations, practical applications, anticipated future trends, equipping participants and hands-on-practice with the knowledge to harness AI's full potential. As we move forward, let's continue to embrace AI-driven advancements to revolutionize engineering practices and drive technological progresses.





# Centurion UNIVERSITY

*Shaping Lives...  
Empowering Communities...*



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Paralakhemundi, Dist.- Gajapati  
Odisha, India. PIN– 761211

### Bhubaneswar Campus

Ramchandrapur  
P.O. – Jatni, Bhubaneswar  
Dist.- Khurda, Odisha,  
India, PIN– 752050

### Balangir Campus

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IDCO land, Rajib Nagar  
Dist.- Balangir, Odisha  
India, PIN-767001

### Rayagada Campus

IDCO Industrial Area  
Pitamahal, Rayagada  
Dist.-Rayagada, Odisha  
India, PIN-765001

### Balasore Campus

Gopalpur,  
P.O.-Balasore  
Dist.-Balasore, Odisha  
India, PIN-756044

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Kaliabali Chhak,  
P.O-Chatrapur, Dist.-Ganjam  
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