

About the Programme

Data science aims to transform raw data into actionable insights that can drive strategic and operational improvements across various fields. Faculty members gain up-to-date knowledge of data science concepts, tools, and techniques. This includes proficiency in data analysis, machine learning, statistical methods, and programming languages commonly used in data science like Python, Keras, PyTorch etc.

This FDP will be beneficial to faculty members, research scholars, PG students and Industry Professionals who intend to practice and begin research in the field of probabilistic and statistical analysis using advanced techniques such as ML/NN/CNN/DL etc. The participants will be trained with a hands-on approach in order to have an in-depth insight into the domain of Data Sciences and expose them to Feasibility & future scope.

FDP Content

- ◆ Overview of Data Science
- ◆ Strategic approaches to Machine Learning and Problem Solving
- ◆ Mathematical foundation in the Neural Networks
- ◆ Analyse the Convolutional Neural Networks
- ◆ Frame work for Deep Learning in PyTorch
- ◆ AI Vector Search in Oracle Database
- ◆ Advanced AI in Hardware
- ◆ Generative AI Innovations

WHO SHOULD ATTEND?

The faculty members, Research scholars and PG Scholars of the AICTE approved institutions and Industry Personnel.

REGISTRATION LINK

Registration has to be done only through

<https://atalacademy.aicte-india.org/>

For more information, kindly visit

<https://atalacademy.aicte-india.org/FAQs>

REGISTRATION FEE

Registration and Programme Free of Cost

RESOURCE PERSONS

The sessions will be handled by the experts on the subject from IITs & other institutions of repute and industries like TCS, IBM, Samsung and Oracle.

ONLINE PLATFORM

The entire programme will be conducted through online platform. The details of online platform and meeting link will be communicated to the selected candidates through their registered email. Assessment on topics covered will also be done through online mode. Minimum 80% attendance and 70% marks are required to earn certificates.

Coordinator



Lt Dr. Prasad J C

Professor

Computer Science and Engineering

Mobile No. : 9995419343

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Experience : 23

Co-Coordinator



Dr. Ierin Babu

Assistant Professor

Computer Science and Engineering

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ierinbabu@fisat.ac.in

Experience : 14



AICTE TRAINING AND LEARNING (ATAL) ACADEMY
6 DAY ONLINE

FACULTY DEVELOPMENT PROGRAMME

on

**Strategic Approaches and
Emerging Trends in Data Science**

10th - 15th February, 2025

Organized by

Department of Computer Science & Engineering



FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY

Hormis Nagar, Mookkannoor, Angamaly, Kerala 683577



ATAL Online 6 Day Faculty Development Programmes 2024-25 Schedule

FDP Thrust Area

Advanced Computing (Supercomputing,AI,Quantum Computing)

FDP Title:

Strategic Approaches and Emerging Trends in Data Science

Start Date:

10-02-2025

End Date:

15-02-2025

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
6.00 PM to 6.30 PM	6.00 PM to 7.30 PM	6.00 PM to 7.30 PM	6.00 PM to 7.30 PM	6.00 PM to 7.30 PM	2.00 PM to 3.30 PM
Inaugural Session:	Session 3	Session 5	Session 7	Session 9	Session 11
	Topic: Advanced AI in Hardware	Topic: Mathematical Foundation for Neural Networks	Topic: Convolutional Neural Networks	Topic: Frame work for Deep Learning-PyTorch	Topic: Python for Data Science in Research
	Name of the Expert: Dr. John Jose	Name of the Expert: Dr. Shailesh Sivan	Name of the Expert: Dr. Sumod Sundar	Name of the Expert: Dr. Satyajit Das	Name of the Expert: Dr. Shynu P. G.
	Designation & Organization: Associate Professor, Department of Computer Science & Engineering, Indian Institute of Technology, Guwahati	Designation & Organization: Assistant Professor, DCS, Cochin University of Science and Technology, Kerala	Designation & Organization: Associate Professor, Department of Computer Science and Engineering, TKM College of Engineering, Kerala	Designation & Organization: Assistant Professor, Department of Computer Science and Engineering, Indian Institute of Technology, Palakkad, Kerala	Designation & Organization: Professor Department of Computer Applications Vellore Institute of Technology, Chennai
	Years of Exp.: 20	Years of Exp.: 15	Years of Exp.: 10	Years of Exp.: 15	Years of Exp.: 20
6.30 PM to 8.00 PM	7.30 PM to 9.00 PM	7.30 PM to 9.00 PM	7.30 PM to 9.00 PM	7.30 PM to 9.00 PM	3.30 PM to 5.00 PM
Session 1	Session 4	Session 6	Session 8	Session 10	Session 12
Topic: Probability and Statistics in Machine Learning	Topic: Classification, Regression Algorithms in Python	Topic: Demystify Neural Networks	Topic: CNN:MNIST Data Set	Topic: AI Vector Search in Oracle Database	Topic: Generative AI
Name of the Expert: Dr. Bindu Krishnan	Name of the Expert: Dr. Bindu Krishnan	Name of the Expert: Dr. Shailesh Sivan	Name of the Expert: Dr. Sumod Sunder	Name of the Expert: Mr. Anand George	Name of the Expert: Mr. Rajeev M A.
Designation & Organization: Senior Statistician, Data & AI, IBM Kochi, Kerala	Designation & Organization: Senior Statistician, Data & AI, IBM Kochi, Kerala	Designation & Organization: Assistant Professor DCS, Cochin University of Science and Technology, Kerala	Designation & Organization: Associate Professor Department of Computer Science and Engineering, TKM College of Engineering, Kerala	Designation & Organization: Principal Technical Engineer Oracle America Inc.. USA	Designation & Organization: Enterprise Architech, Tata Consultancy Services, Cochin
Years of Exp. : 20	Years of Exp.: 20	Years of Exp.: 15	Years of Exp.: 10	Years of Exp.: 17	Years of Exp: 20
8.00 PM to 9.30 PM					5.00 PM to 6.30 PM
Session 2					Session 13
Topic: Introduction to Data Science					Topic: Gen AI for Purpose Led Innovations
Name of the Expert: Mr. Anil Unnikrishnan					Name of the Expert: Mr. Robin Tommy
Designation & Organization: Senior Staff Engineer, Samsung 665 Clyde Ave, Mountain View, CA 94043, USA.					Designation & Organization: Innovation Head, Tata Consultancy Services, Trivandrum
Years of Exp. : 10	Years of Exp. : 18				
					6.30 PM to 7.30 PM
					Online Test & Feedback
					7:30 PM to 8:00 PM
					Valedictory Session

Resource Persons



Dr. John Jose

Associate Professor
Department of Computer Science & Engineering,
Indian Institute of Technology (IIT), Guwahati
Experience : 20



Dr. Satyajit Das

Assistant Professor,
Department of Computer Science and Engineering,
Indian Institute of Technology (IIT), Palakkad, Kerala
Experience : 15



Dr. Shailesh Sivan

Assistant Professor,
Department of Computer Science,
Cochin University of Science and Technology,
Kerala
Experience : 15



Dr. Sumod Sundar

Associate Professor,
Department of Computer Science and
Engineering,
TKM College of Engineering, Kerala
Experience : 10



Dr. Shynu P. G.

Professor
Department of Computer Applications
Vellore Institute of Technology (VIT),
Chennai
Experience : 23



Dr. Bindu Krishnan

Senior Statistician,
Data & AI,
IBM,
Kochi, Kerala
Experience : 20



Mr. Anand George

Principal Technical Engineer
Oracle
America Inc.. USA
Experience : 17



Mr. Anil Unnikrishnan

Senior Staff Engineer,
Samsung,
665 Clyde Ave,
Mountain View, CA 94043, USA
Experience : 15



Mr. Rajeev M. A.

Enterprise Architech,
Tata Consultancy Services(TCS)
Kochi, Kerala
Experience : 20



Mr. Robin Tommy

Innovation Head,
Tata Consultancy Services (TCS)
Trivandrum, Kerala
Experience : 18

About the Institute

Federal Institute of Science And Technology (FISAT) is a private self financing Engineering College, established and run by the Federal Bank Officers' Association Educational Society (FBOAES). The FBOAES is an initiative of the Federal Bank Officers' Association (FBOA), the sole representative body of the entire officers of the Federal Bank.

Federal Institute of Science And Technology (FISAT) has a unique position in the Professional Education Sector in South India. With the motto 'Focus on Excellence', FISAT has been designed and developed to become a 'Centre of Excellence' in professional education. Established in the year 2002, the college has carved a niche for itself in education world, eloquently demonstrated by the flying colors attained by its students in academics, placements as well as extra curricular and co curricular activities. FISAT has embarked on an ambitious plan to enhance the quality and value of education and develop high quality individuals.

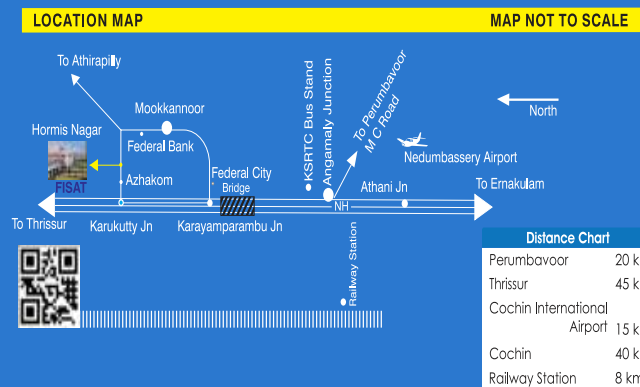
The institution is accredited by NAAC with A+ Grade. Six B.Tech branches are accredited by NBA. The institution also received the coveted ISO 9001:2015 certification. FISAT is set up at Mookkannoor, near Angamaly in Ernakulam District, Kerala, the birth place of the founder of The Federal Bank Ltd, Late K P Hormis. To honour the revered memory of the great visionary, the campus of FISAT is christened 'Hormis Nagar'. FISAT is affiliated to Kerala Technological University (KTU), Kerala and approved by All India Council for Technical Education (AICTE), New Delhi.

About the Department

Department of Computer Science & Engineering was established in the year 2002. Annual intake of students for B.Tech Computer Science & Engineering course is 180, B.Tech Computer Science & Design is 60 and M.Tech (AI & Data Science) is 12. Department is also recognized by APJ Abdul Kalam Technological University as a research center for Ph.D programme. The department has competent and committed faculty which encourages students' involvement in various co-curricular activities along with their academics. Computer Science students consistently bagged top spots in the University Examinations. A large number of students from our department get placed every year in national and multinational companies. The department also takes initiative for the conduct of various inter/intra collegiate competitions to improve the skills of students. The students are also provided with the finest opportunities to join various professional societies like ACM, IEEE, CSI, etc. CSI student branch has consecutively won the best student branch award.

Department is active in college NPTEL Local Chapter (rated with 'A' grade) through which students can join online courses offered by IIT's. The department has been organizing programmes like ICE-FOSS (Free Software Conference) in association with FISAT Free Software Cell (FFSC) and International Conference on Advanced Computing & Communication Technologies.

How to Reach



Advisory Committee

Mr. Shimith P R (Chairman, Governing body, FISAT)

Dr. Jacob Thomas V (Principal)

Dr. Mini P R (Vice Principal)

Dr. Unni Kartha (Dean, Academics)

Dr. Jyothish K John (Professor & Controller of Examinations)

Dr. Paul P Mathai (HoD, Dept. of CSE)

Dr. Arun Kumar MN (Convenor, Research and Development)



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