ONLINE TWO-YEAR MASTER PROGRAM

MS DATA SCIENCE & ARTIFICIAL INTELLIGENCE

COURSE STARTS FROM 13TH JANUARY 2025

Pioneering the future of AI

Call for Registration

Afghanistan   Bangladesh   Bhutan   India   Maldives   Nepal   Pakistan   Sri Lanka

ABOUT

SOUTH ASIAN UNIVERSITY

SAU : VIRTUAL CAMPUS

South Asian University (SAU) is an international university established by 8 member nations of South Asian Association for Regional Co-operation (SAARC) viz. Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan and Sri Lanka. SAU started its operations from the academic year 2010. All programs are recognized by UGC as well as international universities of the world.

SAU is dedicated to promoting regional understanding, fostering intellectual growth, and building a bridge between South Asia and the global community. Established by the SAARC nations, SAU serves as a hub of excellence, committed to pushing the frontiers of education, research, and cross-cultural collaboration.

Our university primarily offers postgraduate (PG) and Ph.D. programs in various fields, including Economics, Legal Studies, Life Sciences, Biotechnology, Mathematics and Computer Science (CS), Social Sciences (such as International Relations and Sociology), and Art & Design.

Recently university has started B.Tech program, University is planning massive expansion in online education mainly in the field of emerging technology and all other discipline where university has enough resources in term of faculties, teaching, learning resources.

Online courses will include undergraduate (UG), postgraduate (PG), certificate, and diploma programs designed to enhance practical knowledge and provide industry exposure across various disciplines. These courses will enable us to reach students in every corner of SAARC countries, especially those facing challenges in accessing on-campus education. Moreover, online education will be more affordable and fully aligned with practical, industry-oriented learning, producing graduates who are industry-ready. Certificate courses will be entirely shift-oriented, equipping students with the planning and skills necessary to meet industry demands effectively.

WHY CHOOSE SAU?

Regional and Global Focus
SAU is uniquely positioned to address both regional and global challenges through its interdisciplinary programs.

Research-Driven Learning
SAU encourages a research-oriented approach, preparing students to excel in academia, industry, and beyond.

Cultural Exchange & Collaboration
With students and faculty from multiple countries, SAU fosters a culturally rich and collaborative learning environment.

Industry Ready Program
Join our course to gain essential skills that boost employability and pave the way to a successful career.

SAU's Vision for AI and Data Science

"Empowering Innovation, Driving Excellence, Shaping Futures in AI and Data Science."

South Asian University recognizes the transformative potential of AI and data science in today's world. Through this MS program, SAU aims to cultivate the next generation of leaders in AI who will drive innovation, ethical practices, and positive societal impact in South Asia and globally.

We are ready to launch our first online courses MS (Data Structure and Artificial Intelligence) from Jan. 2025 semester. The course will be of two years spread over 4 semesters. The content will be as per industry requirement and the faculty will be drawn from best academic institutes and industries from all over the world.

PROGRAM FEATURES AT A GLANCE

Flexible 2-Year Online Format
2-Year Online, Flexible Format on Dedicated LMS

Global Faculty & Peer Network
Collaborate with experts and peers worldwide

Innovative Curriculum
Blend theory with real-world, hands-on projects

Personalized Mentorship & Guidance
Tailored support for your academic and career growth

Admission and Application Process

The 2-year online MS designed to deliver cutting-edge knowledge, hands-on skills, and industry-ready expertise to thrive in the dynamic AI and tech world. Perfect for innovators, career builders, and research enthusiasts.

ONLINE APPLICATION

Fill out the online application on the official website of the university:

sau.int/new-courses

ELIGIBILITY CRITERIA

- B. Tech/ B.E. in any branch
- UG in any subject with a minimum of two courses in mathematics
- MSc./MS in any subject with a minimum of two courses in mathematics at UG or PG level
- MCA

APPLICATION DEALINE AND FEES

Application Deadline: 06 December 2024

Program Fee:
USD 600/ INR 50,000 per semester (SAARC Nations)
USD 800 per semester (Non-SAARC Nations)

Fore details, please see: **sau.int/new-courses**

Admission Support:
Email: admission@sau.int

Technical Support:
Email: technical@sau.int

COURSES

I SEMESTER

- Data Analysis and Visualisation
- Probability and Statistics for Machine Learning
- Machine Learning Techniques
- Linear Algebra for Machine Learning
- Introduction to Artificial Intelligence

II SEMESTER

- Neural Networks and Deep Learning
- Introduction of Vector Databases (DBs) and Large Language Models (LLMs)
- Natural Language Processing
- AI Ethics and Interpretability

III SEMESTER

- Generative AI
- Cloud Native AI
- Computer Vision
- AI Agents

IV SEMESTER

- Quantum Machine Learning (QML)
- Dissertation/ Capstone Project
- Industry Trends and Future of AI

Visit **https://sau.int/course/ms-data-science-and-artificial-intelligence-online/** for detailed syllabus and faculty details.

Faculty Details

Prof. Andries Engelbrecht
Stellenbosch University, South Africa

Prof. Andries earned his M.Sc. and Ph.D. in Computer Science from the University of Stellenbosch in 1994 and 1999. He is the Voigt Chair in Data Science in Industrial Engineering, with a joint appointment in Computer Science at Stellenbosch. Previously, he held roles at the University of Pretoria, including South Africa Research Chair in AI and Department Head.

Prof. Swagatam Das
(To be confirmed), ISI Kolkata, India

Swagatam Das holds a B.E., M.E., and Ph.D. in Engineering from Jadavpur University. He is a professor at the Indian Statistical Institute, Kolkata, and Professor-in-Charge of its Computer and Communication Sciences Division. With over 400 publications and an H-index of 87, his research spans deep learning and optimization. Dr. Das co-founded *Swarm and Evolutionary Computation* and serves on multiple editorial boards.

Faculty Details

Dr. Seifedine Kadry
Noroff University College, Norway

Professor Seifedine Kadry holds a Bachelor's from Lebanese University (1999), an MS from Reims University and EPFL (2002), a PhD from Blaise Pascal University (2007), and an HDR from Rouen University (2017). His research includes Data Science, educational technology, and applied mathematics. He is an IEEE Distinguished Speaker and Fellow of IET, IETE, and IACSIT.

Dr. Ratikant Behera
IISc Bangalore, India

Dr. Behera, with the Department of Computational and Data Sciences at the Indian Institute of Science, Bangalore, focuses on Scientific Machine Learning, Tensor Computations, Neural Networks, and Quantum Computing. He completed his PhD from IIT Delhi and conducted postdoctoral research at Joseph Fourier University, France, and the University of Notre Dame, USA.

Faculty Details

Mr. Gaurav Gupta

CTO & Head – Platform
Alumnus IIM Bangalore, IIT Roorkee

With over 20 years in tech, including leadership roles at Intel and Siemens, he specializes in driving technology strategy, developing training modules, and leading innovations in supply chain, machine learning, and automotive design. He is committed to leveraging technology to enhance outcomes and foster innovation in the edtech sector.

Mr. Vineet Srivastava

Head – Partner Program
Alumnus IIT Roorkee

Serial entrepreneur in Deep Tech, IT, and digital Transformation technologies. Built products, IP & platforms successfully introduced to the market. Built profitable business. Functional expert in strategy, product creation, delivery, and marketing. Last corporate role with Philips Electronics.

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New Delhi 110 068

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