

अमृता विश्व विद्यापीठम्

Amrita Vishwa Vidyapeetham  
Coimbatore

(Accredited by NAAC with 'A++' grade)



A Two-week Hybrid  
Faculty Development Program

on

Recent Advances and Challenges in  
Artificial Intelligence, Machine Learning  
& Blockchain Technology

(RACAMBT – 2023)

27<sup>th</sup> February – 10<sup>th</sup> March 2023



**Patron**

Dr. Sasangan Ramanathan  
Dean – School of Engineering  
Amrita Vishwa Vidyapeetham  
Coimbatore

### ABOUT AMRITA VISHWA VIDYAPEETHAM

Amrita Vishwa Vidyapeetham is a multi-campus, multi-disciplinary research academia accredited with an 'A++' rating by NAAC and is ranked among the best research institutions in India.

It was founded by the world-renowned humanitarian, Sri Mata Amritanandamayi Devi, to provide rigorous academic instruction in an environment rooted in Indian cultural heritage. Our vision is to be an exemplary institution that thrives on its commitment to the transformative power of value-based education, providing the impetus to develop the expansiveness to harmonize both scientific knowledge and spiritual understanding, to utilize knowledge for societal benefit and contribute to a prosperous and sustainable future for all.

### ABOUT THE CENTER

The TIFAC-CORE in Cyber Security at Amrita Vishwa Vidyapeetham was established in 2005. It was identified by TIFAC, the Department of Science & Technology of the Government of India, as a CORE in Cyber Security. The center's unique aspect is the collaboration between industry and academia to develop innovative educational and research programs and world-class expertise in cybersecurity. Currently, the center offers a B.Tech in Computer Science (Cyber Security) and an M.Tech in Cyber Security. The department also offers PhD programs in Cyber Security, including cryptography, network security, blockchain technology, and more.

### THEME OF THE FDP

This FDP program aims to improve the skills and knowledge of faculty members, research scholars, and industry professionals in areas such as Artificial Intelligence (AI), Machine Learning (ML), and Blockchain Technology. It provides participants with the opportunity to learn about emerging technologies and the challenges in these fields. It offers a hands-on demonstration of AI & ML algorithms for real-world applications, smart contract development and security challenges in these areas.

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Sponsored by

AICTE Training and Learning (ATAL)  
Academy



Organised by

TIFAC-CORE in Cyber Security  
Amrita Vishwa Vidyapeetham (AVV)  
Coimbatore

Coordinator

Dr. Prashant R Nair, CSE, AVV, Coimbatore

Co-Coordinator

Mr. Ramaguru Radhakrishnan,  
TIFAC-CORE in Cyber Security,  
AVV, Coimbatore



## KEY POINTS

- Keynote speeches by professors from IITs and NITs, and industry experts.
- Exposure to recent advancements and challenges in AI, ML, DL, and Blockchain Technology.
- In-depth discussions covering topics from basic to advanced levels, including expert systems in AI, ML tools and techniques, and blockchain integration with AI and ML.
- Demonstrations of AI, ML, and DL algorithms for real-world applications.
- Hands-on sessions for developing smart contracts and decentralized applications.
- Discussion of the security aspects of AI, ML, and Blockchain smart contracts.
- Exploration of trends beyond AI and blockchain technologies, and an understanding of open problems and challenges.

## Who Should Attend?

- Academicians, Research Scholars, and PG Students in Computer Science Engineering, Cyber Security, Blockchain Technology, Internet of Things and AI.
- Industry Practitioners engaged in research in relevant areas.

**Number of Seats (Maximum): 50 (First Come Basis)**

**Registration Fee: Nil**

## Test & e-Certificate

- The coordinator will administer a final exam at the end of the faculty development program.
- An e-certificate will be issued to participants who have attended the program with a minimum of 80% attendance and scored a minimum of 60% on the final exam.

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on

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## REGISTRATION DETAILS

The participants are advised to apply online through AICTE ATAL registration portal on or before **14<sup>th</sup> Feb 2023**: <https://atalacademy.aicte-india.org/signup>



## CONTACT DETAILS

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Phone: +91 80563 75912

## STUDENT COORDINATORS

**Mr. Mohamed Feroz Khan D**  
Phone: +91 89031 94412

**Ms. Pothuri Lakshmi Harika**  
Phone: +91 70321 36890

## RESOURCE PERSONS

Dr. Vasily Sachnev, The Catholic Univ. of Korea  
Dr. Mayank Agarwal, IIT Patna  
Dr. Vasudevan A R, NIT Calicut  
Dr. Sangeetha V, BITS Pilani, Bengaluru  
Prof. Avishek Adhikari, Presidency Univ., Kolkata  
Prof. Jubilant J Kizhakkethottam, Saingits College  
Dr. Anoop V S, Digital University Kerala  
Dr. Sivagami R, AVV, Coimbatore  
Prof. Amit Agarwal, AVV, Coimbatore  
Mr. Vigneswaran R, R & I Group, TCS  
Mr. Maharaj M, Founder & CEO, BCBUZZ Tech.  
Mr. Venkata Sai Charan Putrevu, IIT Kanpur  
Mr. Alex Neelankavil Devassy, Ernst & Young  
Ms. Gandavaram Anuhya, Param Networks  
Mr. Sivadanam Yaswanth Lingam, Groww India  
Mr. Aju Mathew Thomas, Ernst & Young

## ORGANIZING COMMITTEE

### Convener

Prof. M. Sethumadhavan, AVV, Coimbatore

### Coordinator

Dr. Prashant R Nair, CSE, AVV, Coimbatore

### Co-Coordinator

Mr. Ramaguru Radhakrishnan, CYS, AVV, Coimbatore

### Advisory Committee

Prof. Bharat Jayaraman, AVV, Coimbatore

Mr. Sitaram Chamarty, TCS

### Organizing Committee

Dr. Amritha P P, CYS, AVV, Coimbatore

Dr. Praveen K, CYS, AVV, Coimbatore

Dr. Lakshmy K V, CYS, AVV, Coimbatore

Dr. Chungath Srinivasan, CYS, AVV, Coimbatore

**Recent Advances and Challenges in  
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**Online Session: 27<sup>th</sup> February – 4<sup>th</sup> March 2023**

<b>Time Slot</b>	<b>7:00 to 7:50 PM</b>	<b>8:00 to 8:50 PM</b>
<b>Day 1 27th Feb Monday</b>	<b>Mr. Venkata Sai Charan Putrevu</b> PMRF Research Scholar, IIT Kanpur  <b>A Threat Model for Target-Specific APT Attacks – Misusing ML Services (D)</b>	<b>Dr. Vasudevan A R</b> Assistant Professor, NIT Calicut  <b>Machine Learning and Intrusion Detection System</b>
<b>Day 2 28th Feb Tuesday</b>	<b>Prof. Avishek Adhikari</b> Head of Dept., Presidency University, Kolkata  <b>Public Key Cryptography and its Applications in Blockchain Technology</b>	<b>Ms. Gandavaram Anuhya</b> Blockchain Developer, Param Networks, Bengaluru  <b>Blockchain Technology and Cryptocurrency (D)</b>
<b>Day 3 1st Mar Wednesday</b>	<b>Dr. Vasily Sachnev</b> Associate Professor, The Catholic University of Korea  <b>A New Approach for JPEG Steganalysis with a Cognitive Evolving Ensembler and Robust Feature Selection</b>	<b>Dr. Sivagami R</b> Research Associate, Amrita Vishwa Vidyapeetham, Coimbatore  <b>A Deep Dive into Convolutional and Recurrent Neural Networks in Deep Learning (D)</b>
<b>Day 4 2nd Mar Thursday</b>	<b>Dr. Mayank Agarwal</b> Assistant Professor, Dept. of CSE, IIT Patna  <b>802.11 Wireless Vulnerabilities, Concepts and Exploits (D)</b>	
<b>Day 5 3rd Mar Friday</b>	<b>Prof. Jubilant J Kizhakkethottam</b> Lead - Blockchain Lab, Saintgits College of Engineering, Kottayam  <b>Blockchain Implementations in IoT for Supply Chain Management (D)</b>	
<b>Day 6 4th Mar Saturday</b>	<b>Dr. Anoop V S</b> Research Officer, School of Digital Sciences, Digital University Kerala, Thiruvananthapuram  <b>Natural Language Processing for Improving Public Health</b>	<b>Mr. Aju Mathew Thomas</b> Cyber Security Consultant, Ernst & Young, Bengaluru  <b>Decentralized Identifiers in Blockchain Technology</b>

**Every Day: 9:00 – 9:30 PM – Interaction Sessions**



**Recent Advances and Challenges in  
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**Offline Session: 6<sup>th</sup> March – 10<sup>th</sup> March 2023**

<b>Time Slot</b>	<b>9:30 AM to 12:00 PM (Forenoon)</b>	<b>12:00 to 1:00 PM</b>	<b>1:00 to 2:00 PM</b>	<b>2:00 to 4:30 PM (Afternoon)</b>
<b>Day 7 6th Mar Monday</b>	<b>Mr. Maharaj M</b> Founder and CEO, BCBUZZ Technologies, Coimbatore <b>Recent Challenges in Enterprise Blockchain Projects</b>	<b>Article 1 Discussion</b>	<b>LUNCH</b>	<b>Dr. Sivagami R</b> Research Associate, Amrita Vishwa Vidyapeetham <b>Image Analysis using Deep Learning Techniques (P)</b>
<b>Day 8 7th Mar Tuesday</b>	<b>Mr. Ramaguru Radhakrishnan</b> Assistant Professor, Amrita Vishwa Vidyapeetham, Coimbatore <b>Smart Contract Implementation using Solidity (P)</b>	<b>Article 2 Discussion</b>		<b>Mr. Vigneswaran R</b> Consultant, Cybersecurity and Privacy Research & Innovation Group, TCS <b>Smart Contract Security Auditing (P)</b>
<b>Day 9 8th Mar Wednesday</b>	<b>Mr. Alex Neelankavil Devassy</b> Senior Security Consultant, Ernst & Young, Thiruvananthapuram <b>Blockchain Application Security (P)</b>	<b>Article 3 Discussion</b>		<b>Dr. Sangeetha V</b> Asst. Professor (Gr-I), BITS, Pilani - WILP (Division), Bengaluru <b>Securing AI Models: A Case Study on ChatGPT (D)</b>
<b>Day 10 9th Mar Thursday</b>	<b>Mr. Sivadanam Yaswanth Lingam</b> Cyber Security Analyst, Groww, Bengaluru <b>Implications of GDPR on Blockchain Technology (D)</b>	<b>Article 4 Discussion</b>		<b>Prof. Amit Agarwal</b> Dept. of EEE, Amrita Vishwa Vidyapeetham, Coimbatore <b>Challenges in Adopting Blockchain Technology</b>
<b>Day 11 10th Mar Friday</b>	<b>Project Charter</b>	<b>Assessments</b>		<b>Reflection Journal</b>

**P - Practical Session, D - Demo Session**