





DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERIN & AI NEXUS CLUB

Organized

5 Day National Level Online Faculty Development Programme on NEXT-GEN CYBERSECURITY WITH AI: TECHNIQUES AND TRENDS

(26.05.2025 – 30.05.2025) Mode: Online

Summary Report

The Department of Computer Science and Engineering & AI Nexus Club at Aarupadai Veedu Institute of Technology (AVIT), Vinayaka Mission's Research Foundation (Deemed to be University), Paiyanoor, Chennai Campus, successfully organized a five-day national-level online faculty development program on NEXT-GEN CYBERSECURITY WITH AI: TECHNIQUES AND TRENDS from 26th to 30th May 2025, focused on "AI in Cybersecurity". This initiative was held under the AICTE "AI for ALL" scheme, promoting awareness, innovation, and interdisciplinary knowledge-sharing in the field of Artificial Intelligence and the series of events under VMRF (DU) silver jubilee year.

Inaugural Ceremony

Date: 26th May 2025 | Time: 5:30 PM – 6:00 PM (Online)

Chief Guest:

Mr. Maharaj, IT Project Manager and Founder & CEO, BCBUZZ Technologies Private Limited, India.

The event was inaugurated in the presence of eminent personalities and academic stakeholders.

Welcome Address: Delivered by Dr. Muthukumaran M, Professor, Department of Computer Science and Engineering, AVIT, emphasizing the FDP to empower faculties, research scholars and PG students with practical exposure to emerging technologies on AI in Cybersecurity.

Presidential Address: Presented by Dr. S. Balakrishnan, Professor & Head, Department of Computer Science and Engineering, AVIT highlighting the crucial role of technology in academia and industry while encouraging participants to engage in research and development.

Inaugural Address: Given by Mr. Maharaj, IT Project Manager and Founder & CEO, BCBUZZ Technologies Private Limited, India. who provided valuable insights into the transformative



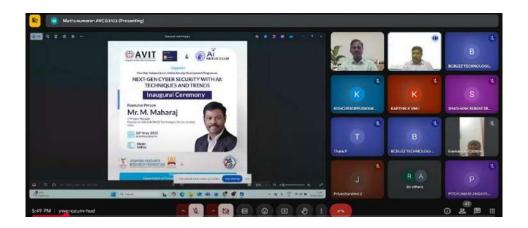




impact of AI, Machine Learning, and emerging technologies on various industries. He addressed the participants with a keynote on the growing importance of AI in enhancing cybersecurity frameworks and building proactive digital defense mechanisms.

Vote of Thanks: Expressed by Dr. R Elankavi, Associate Professor, CSE, AVIT, appreciating the contributions of all dignitaries, faculty members, and students. Coordinator Recognition: Acknowledgment of Dr. Pitchumani Angayarkanni, Professor, CSE AVIT, for his pivotal role in organizing this FDP.



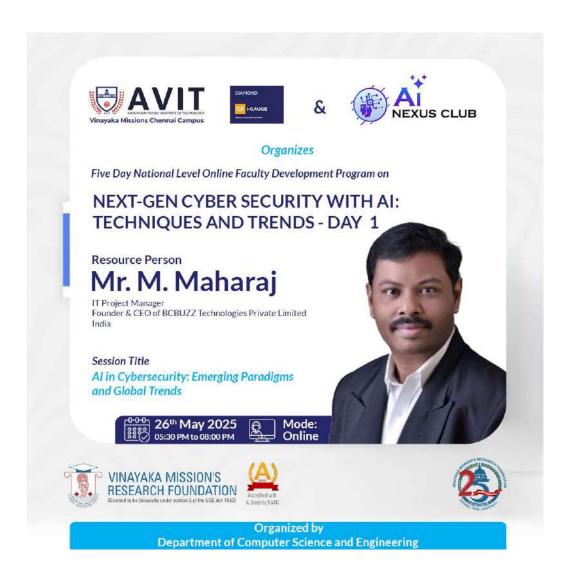








Session Highlights



Day 1 – 26th May 2025

Session Title: "AI in Cybersecurity: Emerging Paradigms and Global Trends"

Time: 6:00 PM - 8:00 PM

Resource Person: Mr. Maharaj, IT Project Manager and Founder & CEO, BCBUZZ

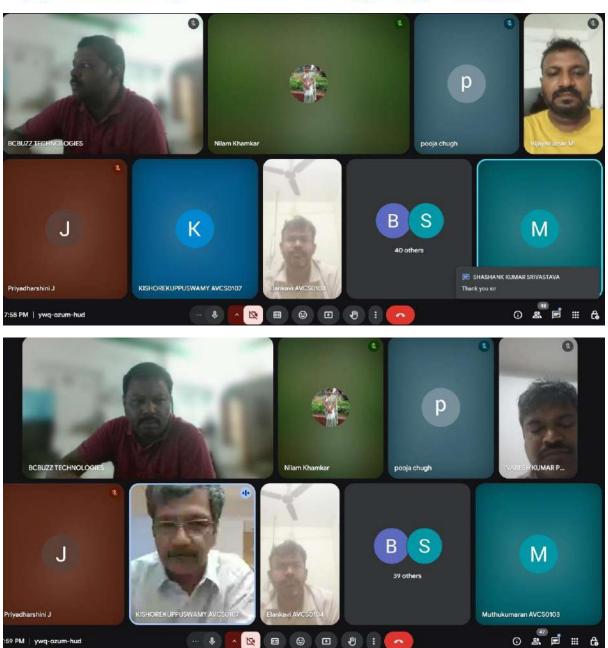
Technologies Pvt. Ltd., India

The session explored global trends in AI-enabled cybersecurity, emphasizing real-world applications and threat detection models.





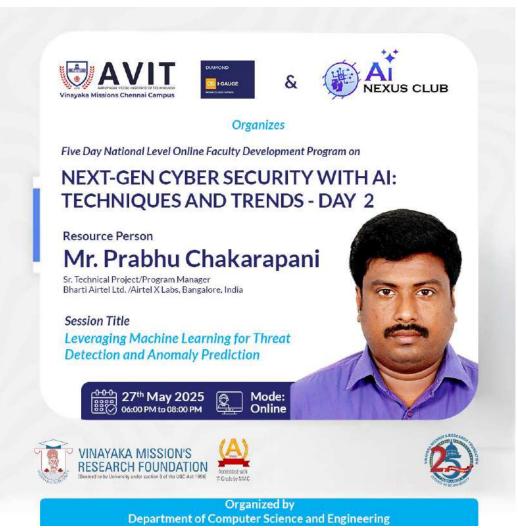












Day 2 - 27th May 2025

Time: 6:00 PM - 8:00 PM

Resource Person: Mr. Prabhu Chakarapani

Role: Senior Technical Project/Program Manager, Bharti Airtel Ltd. / Airtel X Labs, Bangalore,

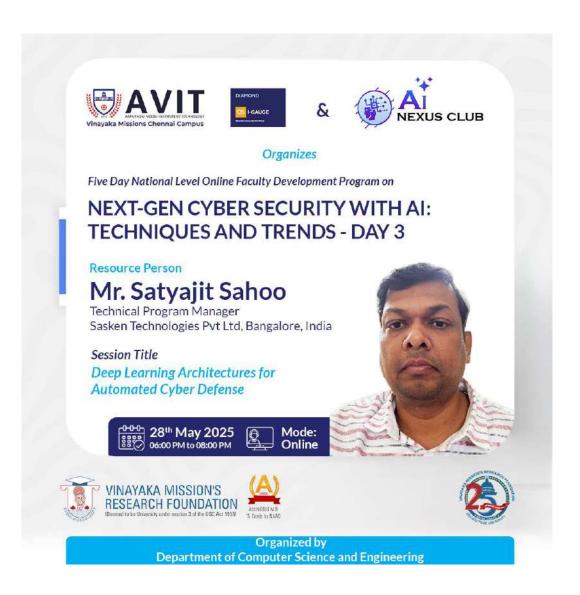
India

Mr. Prabhu delved into industrial-scale AI solutions for cyber threat analysis and anomaly detection.









Day 3 – 28th May 2025

Session Title: "Deep Learning Architectures for Automated Cyber Defense"

Time: 6:00 PM - 8:00 PM

Resource Person: Mr. Satyajit Sahoo

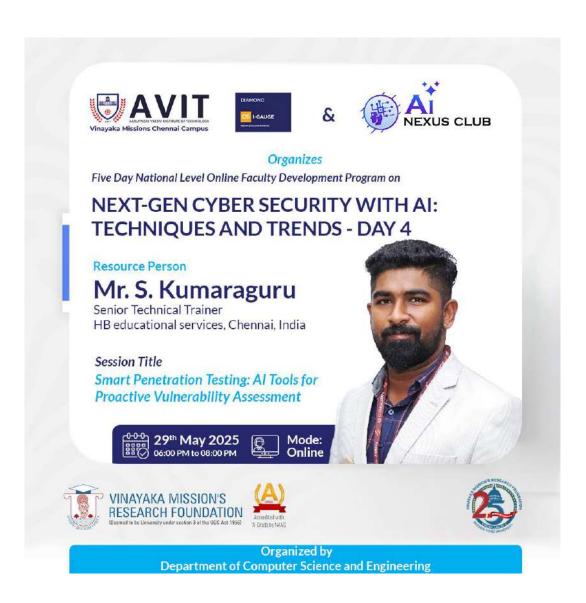
Role: Technical Program Manager, Sasken Technologies Pvt. Ltd., Bangalore, India

He presented a detailed perspective on how deep learning models can autonomously detect and counter cyber threats in real-time.









Day 4 – 29th May 2025

Session Title: "Smart Penetration Testing: AI Tools for Proactive Vulnerability Assessment"

Time: 6:00 PM - 8:00 PM

Resource Person: Mr. Kumaraguru S

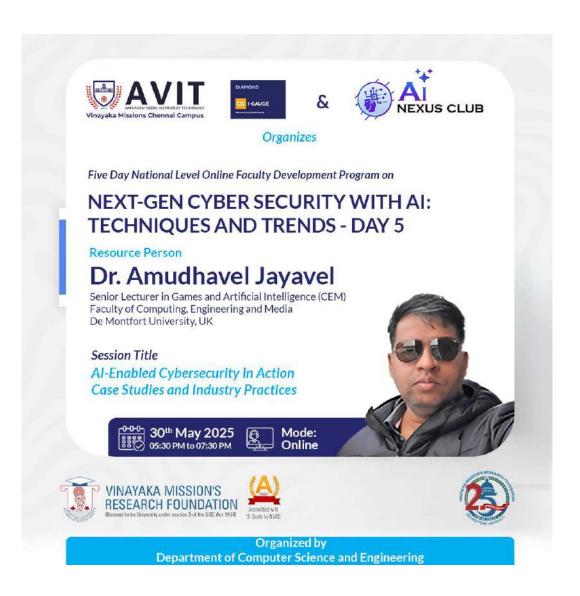
Role: Senior Technical Trainer, HB Educational Services, Chennai, India

The session offered practical demonstrations of AI-based penetration testing tools and emphasized proactive cybersecurity practices.









Day 5 - 30th May 2025

Session Title: "AI-Enabled Cybersecurity in Action: Case Studies and Industry Practices"

Time: 5:30 PM - 7:30 PM

Resource Person: Dr. Amudhavel Jayavel

Role: Senior Lecturer in Games and Artificial Intelligence (CEM), Faculty of Computing, Engineering and Media, De Montfort University, United Kingdom

Dr. Amudhavel shared valuable insights through real-world case studies showcasing the implementation of AI techniques across global cybersecurity infrastructures.







Valedictory Ceremony

Date: 30th May 2025 | Time: 7:30 PM – 8:00 PM (Online)

The event concluded with a heartfelt valedictory address delivered by Dr. Amudhavel Jayavel, commending the organizing team and urging students and professionals to embrace AI in securing the digital future.











Coordinator Acknowledgment

Special appreciation was extended to Dr. R Elankavi, Associate Professor, CSE and Dr Pitchumani Angayarkanni, Professor, CSE, AVIT, for his instrumental role in coordinating the event successfully and ensuring its impactful delivery to a national audience.

Outcome of the FDP

- Participants gained foundational to advanced knowledge of AI applications in cybersecurity.
- The program enabled hands-on exposure to emerging tools, trends, and technologies.
- Participants were introduced to real-world case studies and industry-standard practices.
- Fostered interdisciplinary collaboration and industry-academia interaction.
- Enhanced understanding of threat prediction, anomaly detection, deep learning in defense systems, and ethical hacking using AI.
- Evaluation done by online quiz, all the participants attended quiz with good points.

Feedback and Participation

The FDP witnessed active participation from faculty, researchers, and industry professionals across various institutions.







The feedback collected indicated a high level of satisfaction with the content quality, relevance, and expertise of speakers.

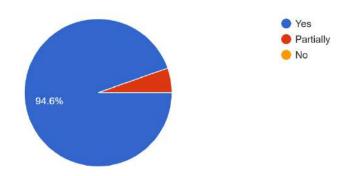
Participants expressed keen interest in follow-up workshops, certifications, and collaborative projects.

Sample feedback:

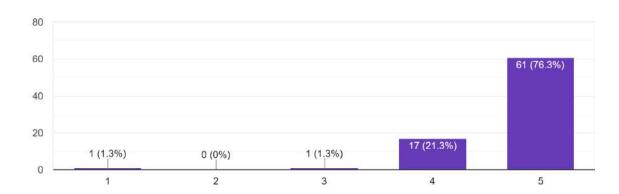
Introduction to Next-Gen Cybersecurity Threats and AI Integration: This session laid a strong foundation by highlighting how AI is transforming both cyber offense and defense. The examples of real-world AI-powered attacks and defenses provided a clear picture of the need for adaptive and intelligent cybersecurity solutions.

Overall, the sessions met my expectations:

74 responses



How is the session organized? 80 responses







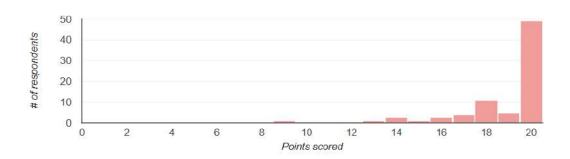


QUIZ Analysis (Evaluation)

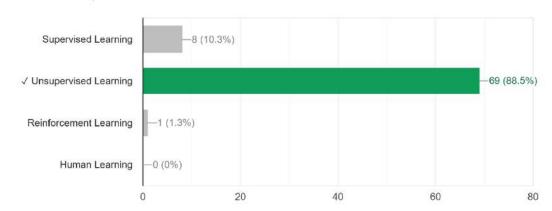
Insights



Total points distribution



Which learning type is often used in cybersecurity anomaly detection? 69 / 78 correct responses



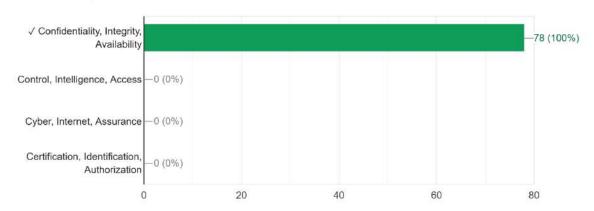






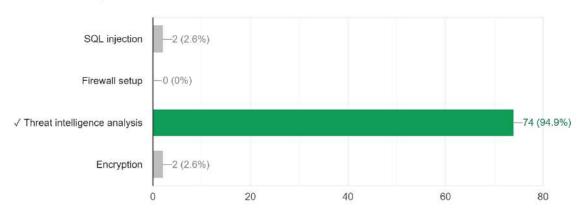
The CIA triad in cybersecurity stands for:

78 / 78 correct responses



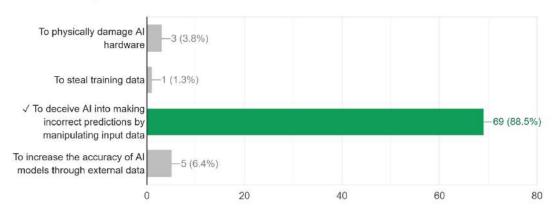
Natural Language Processing (NLP) in cybersecurity helps with:

74 / 78 correct responses



What is the primary goal of adversarial attacks on AI systems?

69 / 78 correct responses









Department of Computer Science and Engineering & AI Nexus Club organizing

5 Day National Level Online Faculty Development Programme on NEXT-GEN CYBERSECURITY WITH AI: TECHNIQUES AND TRENDS (26.05.2025 – 30.05.2025)

PROGRAMME SCHEDULE

Date, Session & Time	Title	Guest/Resource Person
26 th May 2025 Time: 5:30 pm to 6:00 pm (Online)	Inaugural Ceremony	Mr. Maharaj, IT Project Manager and Founder & CEO of BCBUZZ Technologies Private Limited, India







Day 1: 2	26 th M	lay 2	2025
Session	1		

Time: 6:00 pm to 8:00 pm (Online)

Title: Foundations and Future of AI-Driven Cybersecurity

Session Title: "AI in Cybersecurity: Emerging Paradigms and Global Trends."



Mr. Maharaj, IT Project Manager and Founder & CEO of BCBUZZ Technologies Private Limited, India

Day 2: 27th May 2025

Session 2

Time: 6:00 pm to 8:00 pm (Online)

Title: Threat Intelligence and Predictive Analysis

Session Title: "Leveraging Machine Learning for Threat Detection and Anomaly Prediction,"



Mr Prabhu Chakarapani

Sr. Technical Project/Program Manager

Bharti Airtel Ltd. /Airtel X Labs, Bangalore, India







- MA 201		
Day 3: 28 th May 2025 Session 3 Time: 6:00 pm to 8:00 pm (Online)	Title: Deep Learning and Automation in Security Systems Session Title: "Deep Learning Architectures for Automated Cyber Defense,"	Mr. Satyajit Sahoo Technical Program Manager, Sasken Technologies Pvt Ltd, Bangalore, India
Day 4: 29 th May 2025 Session 4 Time: 6:00 pm to 8:00 pm (Online)	Title: AI-Powered Ethical Hacking and Penetration Testing Session Title: "Smart Penetration Testing: AI Tools for Proactive Vulnerability Assessment."	Mr Kumaraguru S Senior Technical Trainer, HB educational services, Chennai, India
Day 5: 30 th May 2025 Session 5 Time: 5:30 pm to 7:30 pm (Online)	Title: Real-World Applications and Case Studies Session Title: "AI-Enabled Cybersecurity in Action: Case Studies and Industry Practices,"	







		Dr. Amudhavel Jayavel
		Senior Lecturer in Games and Artificial Intelligence (CEM)
		Faculty of Computing, Engineering and Media
		De Montfort University
		The Gateway House
		Leicester, LE1 9BH
		United Kingdom
30 th May 2025	Valedictory Ceremony	Guest:
Time: 7:30 pm to 8:00 pm (Online)		Dr. Amudhavel Jayavel
		Senior Lecturer in Games and Artificial Intelligence (CEM)
		Faculty of Computing, Engineering and Media
		De Montfort University
		The Gateway House
		Leicester, LE1 9BH
		United Kingdom

List of Participants

Sno	Timestamp	Title	Name of the Participant	Educational Qualifica	Category	Name of the College/University	Place/City
	5-2-2025 9:04:04		S.VEENA	Ph D	Faculty Member	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY RAMAPURAM	Chennai
	5-2-2025 10:42:31	Mr	SUNDAR VARANASI	BSc	Faculty Member	AVIT	Chennai
	5-2-2025 10:48:33	Ms	PRAJAKTA DHAVAL SADARIA	Master of Technology in Computer Science and Engineering	Faculty Member	Marwadi University	Rajkot
	5-2-2025 17:20:07	Dr	DAMODHARAN PALANIAPPAN	Ph.D	Faculty Member	MARWADI UNIVERSITY	RAJKOT
:	5-2-2025 19:15:25	Mr	K.KARTHIK	M.E-CSE	Faculty Member	AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY	CHENNAI
1	5-2-2025 19:16:20	Dr	K.SARAVANAN	Ph.D	PG Student	SRMIST	Chennai
	5-2-2025 19:16:21	Dr	D Karthikeyan	Ph.D	PG Student	AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY chennai	Paiyanur, Tamil Nadu 603104
	5-2-2025 20:08:34	Ms	K.NAVEEDA	Masters	Faculty Member	Mangayarkarasi college of Engineering	Madurai
!	5-3-2025 10:13:02	Dr	NILAM VAIBHAV JADHAV	MCA, PhD, SET, NET	Faculty Member	D. Y. Patil School of Engineering and Management, Kolhapur	Kolhapur
1:	5-3-2025 11:34:17	Dr	RAJANARAYANAN S	Doctorate	Faculty Member	Vinayaka Missions Kirupananda Variyar Engginering College	Salem
1	5-3-2025 16:59:29	Dr	C. SUBRAMANI	PhD	Faculty Member	SRM Institute of Science and Technology I, Kattankulathur	CHENGULPATTU
1:	5-3-2025 17:31:57	Dr	VINOTHKUMAR.B	Ph.D	Faculty Member	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY	Chennai
1:	5-3-2025 18:32:36	Dr	S VIDYASAGAR	PhD	Faculty Member	SRM Institute of Science and Technology	Kattankulathur
1.	5-4-2025 16:11:28	Dr	M SRISANKAR	PhD	Faculty Member	Dr R V. Arts and Science College	Karamadai , coimbatore
1:			S.VIJAYALAKSHMI	Ph.D	Faculty Member	KalaignarKarunanidhi institute of technology	Coimbatore
1	5-5-2025 11:28:21	Dr	MANIKANDAN M	Ph.D	Faculty Member	SRMIST, SRM UNIVERSITY	Kattankulathur
1			KALYANASUNDARAM V	Ph. D	Faculty Member	SRM Institute of Science and Technology	Kattankulathur
1	5-5-2025 23:33:47	Ms	PREMAVATHI T	M. E	Research Scholar	Marwadi University	Rajkot
1	5-7-2025 11:53:34	Ms	Bhavani Vanama	M.Tech	Faculty Member	Keshav Memorial Engineering College	Hyderabad
2			PEGADA NARESH KUMAR	M.Tech	Faculty Member	KESHAV MEMORIAL ENGINEERING COLLEGE	Hyderabad
2	5-7-2025 21:19:22	Ms	I. Roshini	M.E.,	Faculty Member	Sree sakthi engineering college	Coimbatore
2	5-8-2025 9:58:55	Mr	Thandra Narayana Rao	MTech in Computer So	Faculty Member	Keshav Memorial Engineering College	Hyderabad
2	5-8-2025 10:55:40	Dr	AparnaRajesh Atmakuri	Phd	Faculty Member	Keshav Memorial Engineering College	Hyderabad

24	5-9-2025 10:55:54	Mr	M. VIJAYAKUMAR	M.E (CSE)	Faculty Member	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY	CHENNAI
25	5-10-2025 15:51:21	Dr	Dr.E.RAJESH KUMAR	Ph.D	Faculty Member	KL University	Vijayawada
26	5-11-2025 8:03:55		SUSHMA D K	M.Tech	Faculty Member	Vemana Institute of Technology	Bangalore
27	5-11-2025 11:32:51		NAYANA NITIN MORE	ME Computer	Faculty Member	KKWIEER Nashik	Nashik
28	5-11-2025 12:52:05		Karri lavanya	M.tech	Faculty Member	Dadi engineering college and technology	Anakapalli
29	5-12-2025 15:07:18		IGNISHA RAJATHI G	PhD	Faculty Member	Manipal Institute of Technology Bengaluru, MAHE	Bengaluru
30	5-13-2025 9:55:32		Dr D ANGELINE BENITTA	PhD	Faculty Member	HITS	Chennai
31	5-14-2025 8:59:42	Mr	RAVICHANDRAN M	M. Tech.,	Faculty Member	IFET College Of Engineering	Villupuram
32	5-14-2025 11:35:28	Ms	KAVITHA G L	MTech	Faculty Member	KMCT institute of emerging technology	Ketala
33	5-14-2025 12:03:50		KISHORE KUPPUSWAMY	MCA	Faculty Member	AVIT College (Vinayaka Missions Research Foundation)	Chennai
34	5-15-2025 10:18:31		SIVASANKARAN S	Ph.D	Faculty Member	IFET College of Engineering	Villupuram
35	5-15-2025 14:32:53	Mr	BALAJI VELCHURI	M.Tech	Faculty Member	K L University	guntur
36	5-16-2025 9:47:09	Dr	REVATHY. S	PhD	Faculty Member	SRM Institute of Science and Technology	Ramapuram, chennai
37	5-16-2025 11:03:59		FRANCE K		Faculty Member	HINDUSTAN INSTITUTE OF TECHNOLOGY AND SCIENCE	CHENNAI
38	5-16-2025 12:10:27	Mr	TRILOCHAN ROUT	M.Tech	Faculty Member	CUTM ,Bhubaneswar, Odisha	Bhubaneswar
39	5-16-2025 12:12:17	Dr	MARGRET SHARMILA F	Ph.D	Faculty Member	Sri Krishna College of engineering and technology	Coimbatore
40	5-17-2025 16:03:02	Dr	VANITHA.S	Ph.D	Faculty Member	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY	Chennai
41	5-18-2025 9:17:34	Mr	HARISH KUMAR M	M.Tech	Faculty Member	Vemana Institute of Technology- Bangalore	Bangalore
42	5-18-2025 13:05:29	Ms	S.VANILA	M.E	Faculty Member	SRM VALLIAMMAI ENGINEERING COLLEGE	KATTANKULATHUR
43	5-18-2025 14:51:04	Dr	SARAVANAKUMAR C	Ph. D	Faculty Member	Government polytechnic college purasaiwalkam	Chennai
44	5-18-2025 15:01:53	Mr	SHASHANK KUMAR SRIVASTAV	M.Tech	Faculty Member	BUDDHA INSTITUTE OF TECHNOLOGY,GIDA,GORAKHP UR	Gorakhpur
45	5-18-2025 16:03:25	Dr	NIKITA SOREN	PhD	Faculty Member	Sathyabama Institute of Science and Technology	Chennai
46	5-18-2025 21:52:17		Dr Senbagavalli M	Ph.D	Faculty Member	Alliance University	Bangalore
47	5-19-2025 10:16:57		KOUSHIK MONDAL	PhD	Faculty Member	IIT ISM Dhanbad	Dhanbad
48	5-19-2025 17:54:49		I MUTHU MEENATCHI	M.E	Faculty Member	K.L.N College of Engineering	Pottapalayam
49	5-19-2025 19:57:11	Dr	S LEELAVATHY	PhD	Faculty Member	Panimalar Engineering College	Chennai
50	5-19-2025 20:28:41	Ms	VIMALA.M	ME (CSE)	PG Student	AVIT	THIRUKKALUKUNDR AM
51	5-20-2025 9:02:50	Dr	SHIJU SAMUEL	Ph.D	Faculty Member	St. Vincent Pallotti College of Engineering & Technology	Nagpur
52	5-20-2025 11:11:33	Dr	Ananthi Claral Mary.T	Ph.D Computer Science	Faculty Member	SRM Institute of Science and Technology	Kattankulathur

	5-20-2025 12:46:05	Dr	MOHAMED SULAIMAN S	PhD	Faculty Member	Galgotia College of Engineering	Delhi-NCR
53	3-20-2023 12.40.03	DI	INOTANIED SOLAINAN S	וווט	r acuity Member	and Technology	Demi-Norc
54	5-20-2025 12:59:21	Ms	MANJULA DEVI P	M.E	Faculty Member	AMC ENGINEERING COLLEGE Bangalore	Bangalore
55	5-20-2025 14:19:59	Dr	PRIYA S	PhD	Faculty Member	Manipal Institute of Technology Bengaluru	Bengaluru
56	5-20-2025 19:10:03	Mr	V KUMARESAN	M.E - CSE	Faculty Member	V.S.B. ENGINEERING COLLEGE	KARUR
57	5-20-2025 22:35:38	Ms	KARTHIKA.C	M.E.	Faculty Member	K.L.N.collegr of engineering	Madurai
58	5-21-2025 9:35:27	Dr	R SUJEETHA	Ph.D	Faculty Member	SRMIST Ramapuram Campus	CHENNAI
59	5-21-2025 9:44:42	Dr	SAHAYA SAKILA V	Ph.D	Faculty Member	SRMIST RAMAPURAM	CHENNAI
60	5-21-2025 9:55:29		M.SNEHAPRIYA	M.E.,	Faculty Member	SRM IST, UNIVERSITY	CHENNAI
61	5-21-2025 10:01:51		V MALATHI	M.E	Research Scholar	Aarupadai veedu Institute of Technology	Chennai
62	5-21-2025 10:27:26	Dr	Venkatesh	Ph.D	Faculty Member	SRM institute of science and technology kattankulathur	Chennai
63	5-21-2025 10:34:14	Ms	PALLAVI DIXIT	M.tech	Faculty Member	BUDDHA INSTITUTE OF TECHNOLOGY GIDA GORAKHPUR	Gorakhpur
64	5-21-2025 10:47:14	Ms	AKILA M	M.E.,	Faculty Member	KLN COLLEGE OF ENGINEERING	SiVAGANGAI
65	5-21-2025 14:51:29	Dr	ARIKUMAR	Ph.D	Faculty Member	SRM Institute of Science and Technology	Kattankulathur
66	5-21-2025 16:00:40	Dr	PRASANNA V	Ph.D	Faculty Member	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, KATTANKULATHUR	Chennai
67	5-22-2025 12:50:56	Dr	John Deva Prasanna D S	Ph.D	Faculty Member	SRMIST-KTR	Chennai
68	5-22-2025 15:30:42	Ms	THIRUNIRAI SELVI.A	M.E-CSE	Faculty Member	K.L.N College of Engineering	MADURAI
69	5-23-2025 10:02:20		POOJA CHUGH	MCA, M Phil	Faculty Member	DAV College For Women, Ferorzpur Cantt	Ferozpur
70	5-23-2025 13:53:23	Mr	SAURABH HARISHBHAI VYAS	M. Tech (Computer Sc	Faculty Member	GHRCEM, Nagpur	Nagpur
71	5-24-2025 11:16:09	Dr	SANJAY VASANT KADAM	Ph. D	Faculty Member	Rajarambapu Institute of Technology	Islampur
72	5-24-2025 12:42:28	Dr	ASCAR DAVIX.X	M.E., Ph.D	Faculty Member	RVR & JC College of Engineering	Guntur, Andhra Pradesh
73	5-24-2025 17:29:18	Mr	KANNAN G	ME	Faculty Member	R P SARATHY INSTITUTE OF TECHNOLOGY	SALEM
74	5-24-2025 21:50:40	Ms	BANDARI THANUJA	MTECH	Faculty Member	CMR TECHNICAL CAMPUS	Hyderabad
75	5-25-2025 7:15:10	Dr	Dr. C.sivakumar	PHD	Faculty Member	Mohan Babu University Tirupati Andhra Pradesh	Andhra Pradesh
76	5-25-2025 9:24:32	Mr	ANANDAN .S	M.C.A M.phil	Faculty Member	Valluvar College of science and management	Karur
77	5-25-2025 10:48:12	Ms	R RADHIKA	M.E(CSE)	Faculty Member	Hindustan Institute of Technology and Science	Chennai
78	5-25-2025 10:49:21	Ms	RENUKA N	MTech	Faculty Member	CMR TECHNICAL CAMPUS	Hyderabad

	5-25-2025 10:55:18	Dr	P. T. ANITHA	PhD		School of computing, Department of Data science, Mohan Babu	Tirupati, AP, India
79						University	
80	5-25-2025 23:03:00	Dr	SHANTHINI A	Ph,D	Faculty Member	SRMIST KTR	Chennai
81	5-26-2025 8:16:44	Mr	Mr. M.KAMESHWAR RAO	MCA	Faculty Member	Shri Rawatpura Sarkar university raipur chhatisgarh	492015
82	5-26-2025 12:21:18	Ms	K.KOWSALYA	M.E CSE	Faculty Member	Hindustan Institute of Technology and Science	Chennai
83	5-30-2025 14:31:52	Mr	BHARATHIKUMAR S	MA., M PHIL., B Ed	I Faculty Mambar	Sri Venkateswara College of Engineering	Sriperumbudur
84	5-31-2025 12:58:03	Dr	S.VINODHKUMAR	Ph.D	Faculty Member	Rajalakshmi Engineering College	Chennai