RAMAIAH Institute of Technology

Faculty Development Programme on
Role of Blockchain and Artificial Intelligence in Applications of Cyber Security
22nd July – 26th July, 2019

REGISTRATION FORM

Name: _____

Designation: _____

Department: _____

College: _____

Mobile No: _____

E-mail: _____

Address for Communication: _____

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Registration Fee Details:

DD No.: _____

Amount: _____ Date: _____

Bank: _____

(DD to be drawn in favor of "The Principal, M S Ramaiah Institute of Technology, Bangalore-560054")

Signature of   Signature of
Participant   Head of the institute

Online registration:
https://forms.gle/FwuGnNGmhhPDQWd27

Patrons
- Dr. M R Jayaram, Chairman, GEF
- Sri. M R Seetharam, Vice Chairman, GEF & Director, RIT
- Sri. M R Ramaiah, Secretary, GEF & Director, RIT
- Sri. B S Ramaprasad, Chief Executive, GEF (Engg., & Gen. Sci.)
- Dr. N Venkatarathnam Naidu, Principal, RIT

Conveners
- Dr. Vijaya Kumar B P, Professor & Head, Dept. of ISE, RIT; Chair IEEE CIS Bangalore Chapter
- Dr. Anita Kanavalli, Professor & Head, Dept. of CSE, RIT
- Dr. Yogish H.K, Professor & Head, Dept. of MCA, RIT

Technical Advisors
- Prof. T Srinivas, IISc
- Mrs. AnandhiGiridharan, IISc
- Mrs. Gayathri Devi B R, Vice-chair, IEEE CIS, Bangalore Chapter

Coordinators
- Dr. Mydhili K Nair, Professor, Dept. of ISE, RIT
- Dr. Monica R Mundada, Professor, Dept. of CSE, RIT
- Dr. Manish Kumar, Assistant Professor, Dept. of Computer Applications, RIT
- Dr. S Ajitha, Dept. of Computer Applications, RIT
- Lincy Meera Mathews, Dept. of ISE, RIT
- Meeradevi A. K, Dept. of CSE, RIT
- Suresh Kumar K. R, Dept. of ISE, RIT
- Dr. Naidila Sadashiv, Dept. of ISE, RIT
- Sowmya B. J, Dept. of CSE, RIT
- Hanumantha Raju R, Dept. of CSE, RIT

RAMAIAH Institute of Technology
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IEEE BANGALORE SECTION
IEEE Computational Intelligence Society Bangalore Chapter

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Role of Blockchain and Artificial Intelligence in Applications of Cyber Security

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Organized By

Departments of
Information Science and Engineering
Computer Science and Engineering
Master of Computer Applications

Technically Supported By

IEEE-CIS Bangalore Chapter
CoE in Cyber Security, Govt. of Karnataka
Check Point Software Technologies
QOS Technology, Schneider Electric
EMURGO

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(Autonomous Institute,Affiliated to VTU)
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About the Institution

Ramaiah Institute of Technology (RIT) was started in 1962 by Late Dr. M S Ramaiah, our Founder Chairman who was a renowned visionary, philanthropist, and a pioneer in creating several landmark infrastructure projects in India. Noticing the shortage of talented engineering professionals required to build a modern India, Dr. M S Ramaiah envisioned MSRIT as an institute of excellence imparting quality and affordable education. Part of Gokula Education Foundation, MSRIT has grown over the years with significant contributions from various professionals in different capacities, ably led by Dr. M S Ramaiah himself, whose personal commitment has seen the institution through its formative years. Today, MSRIT stands tall as one of India's finest names in Engineering Education and has produced around 35,000 engineering professionals who occupy responsible positions across the globe.

About the Department

Department of Information Science and Engineering was established in the year 1992 with an objective of producing high-quality professionals to meet the demands of the emerging areas of Information Technology. The department is accredited by the NBA. The department has highly qualified, motivated faculty members and well equipped state of the art laboratories. A strong collaboration with industries and high profile institutions is in place for curriculum updates, project based learning, expert lectures and student interns. Department is successfully conducting seminars, conferences and workshops for students and academicians in the emerging areas of Information Technology. Some of the laboratories have also been set up in collaboration with industries such as Intel, Microsoft, Apple, SECO, Honeywell, EMC, NVIDIA and IBM. All these potential activities have led to high profile placements, motivating to become entrepreneurs, and encouraging for higher learning.

About the FDP

No cyber defense or information system can be regarded as 100% secure. What is deemed safe today won't be tomorrow given the lucrative nature of cybercrime and the criminal's ingenuity to seek new methods of attack.

AI and Blockchain is gaining traction today in the field of Cyber Security. Traditional Cyber Security systems are inefficient in handling new varieties of malware. Therefore, adopting AI for Cyber Security is a feasible solution to tackle such problems.

This workshop aims at exposing the participants to the principles of information security, application of AI and Blockchain in Cyber Security and a set of tools that is necessary to understand those principles. The workshop will consist of hands-on sessions on the use of prominent open-source security tools. Participants will be guided through these tools' usage and utility.

Topics that will be covered:

- Principles of Cyber Security.
- Applications of Artificial Intelligence in Cyber Security.
- Applications of Blockchain in Cyber Security.
- Tools for Cyber Security Labs.
- Hands-on Sessions everyday

Resource Persons

Experts from Industry and Academia.

Eligible Participants:

From Academia and Industry

Registration Fee

Academicians: Rs. 1000/-

Delegates from Industry: Rs.2000/-

Note: The registration fee includes workshop kit, lunch, refreshments. TA, DA and accommodation will not be provided for the participants.

Seats are Limited and will be filled on First Come First Serve basis. Last date for registration is 20/07/2019.

Address for Communication

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Workshop Schedule

DAY1				
Date	**Time**	**Session**	**Content**	**Speaker**
22/07/19	9:30 AM-10:30 AM	**Inauguration/Inaugural Speech by Dr. Vijaya Kumar B P, Professor and Head, Dept. of ISE**		
	10:30 AM-11:15 AM	KeyNote	Welcome Note	COE Cyber Security, GOK/IISC
	11:15 AM-11:30 AM	**Tea Break**		
	11:30 AM-12:15 PM	Session1	Evolution & Growing Complexity of Security landscape	Checkpoint
	12:15 PM-01:15 PM	Session2	Sophistication of Threats (with role play)	
	01:15 PM-2:00 PM	**Lunch**		
	2:00 PM-2:45 PM	Session 3	Panel discussion (inviting industry experts)	Checkpoint
	2:45 PM-3:15 PM	Session 4	Rise of AI & ML (CP & QoS team)	
	3:15 PM-3:30 PM	**Tea Break**		
	3:30 PM-4:30 PM	Session 5	Demo on Hacking	Checkpoint

DAY 2				
23/07/19	9:30 AM-11:00 PM	Session1	Cyber Awareness Redefined : Creating Hubs at Institutions & Cyber Courses	Checkpoint
	11:00 AM-11:15 AM	**Tea Break**		
	11:15 AM-1:00 PM	Session2	Cp Invited External Speaker – Reference Case Study & How it can help Edu institutions	Checkpoint
	1:00 PM-2:00 PM	**Lunch**		
	2:00 PM-2:45 PM	Session3	Panel discussion	Checkpoint
	2:45 PM-3:15 PM	Session4	Cp Invited External Speaker – Reference Case Study & How it can help Edu institutions	
	3:15 PM-3:30 PM	**Tea Break**		

	3:30 PM-4:30 PM	Session5	TBD	Checkpoint

DAY 3

Date	Time	Session	Content	Speaker
24/07/19	9:30 AM-11:00 PM	Session1	The Cyber Range Lab - A Brief history of the Most sophisticated Cyber Security Skill development tool.	Ashok Sharma, CoFounder & CTO QoS Technology
	11:00 AM-11:15 AM		**Tea Break**	
	11:15 AM -1:00 PM	Session2	Demystify MITRE ATT&CK™ - World's most comprehensive Framework to defend your IT Infrastructure against adversaries.	Vishal - Senior Cyber Security Researcher QoS Technology
	1:00 PM-2:00 PM		**Lunch**	
	2:00 PM-2:45 PM	Session3	Hands-on Cyber Security Workshop on Purple Range Lab - A Hyper Realistic Simulation Lab.	Vishal & Murali - Senior Cyber Security Researcher, QoS Technology
	2:45 PM-3:15 PM	Session4	What Internet knows about you? Fun and Scary side of Internet	Murali & Piyush - Senior Cyber Security Researcher, QOS Technology
	3:15 PM-3:30 PM		**Tea Break**	
	3:30 PM-4:30 PM	Session5	What Internet knows about you? Fun and Scary side of Internet	Murali & Piyush - Senior Cyber Security Researcher, QOS Technology QoS Technology

DAY 4

	9:30 AM-11:00 PM	Session1	Blockchain Introduction	Emurgo Academy
	11:00 AM-11:15 AM		**Tea Break**	
	11:15 AM-1:00 PM	Session2	Ways Blockchain is revolutionizing cyber security	Emurgo Academy
25/07/19	1:00 PM-2:00 PM		**Lunch**	
	2:00 PM-2:45 PM	Session3	Use cases of Blockchain in cyber Security	Emurgo Academy
	2:45 PM-3:15 PM	Session4	Short hands on sessions	
	3:15 PM-3:30 PM		**Tea Break**	
	3:30 PM-4:30 PM	Session5		Emurgo Academy

			Short hands on sessions	

			DAY 5	
26/07/19	9:30 AM-11:00 PM	Session1	Hands-On: Building Applications Secure by Design for Proactive Threat Defense	Varun M Deshpande Schneider Electric
	11:00 AM-11:15 AM		Tea Break	
	11:15 AM-1:00 PM	Session2	Hands-On: Sneak-peak into a Cyber Ninjas's Tool kit for Threat Hunting	Varun M Deshpande Schneider Electric
	1:00 PM-2:00 PM		Lunch	
	2:00 PM-2:45 PM	Session3	AI & ML use cases in Advanced Threat Defense	Varun M Deshpande Schneider Electric
	2:45 PM-3:15 PM	Session4	Hands-On: Sealing off loose ends in your applications using GHDB	
	3:15 PM-3:30 PM		Tea Break	
	3:30 PM-4:30 PM	Session5	Journey to becoming a Cyber Security Expert	Varun M Deshpande Schneider Electric
	4:30 PM-5:00 PM		Certificate Distribution	

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