



Sri Ramakrishna Institute of Technology

(An Autonomous Institution)

(Accredited by NAAC with "A" Grade)

Pachapalayam, Perur Chettipalayam, Coimbatore – 641 010

www.srit.org :: Phone – 0422-2605577



Faculty Profile

Full name with Qualification, Designation and

Department:

Dr. N S Kavitha, B.E., M.E., Ph.D.,

Associate Professor – Grade 1

Computer Science and Engineering



Date of birth	:	09.06.1982	Gender	:	Female
Nationality	:	Indian	Marital status	:	Married
Address for correspondence	:	392/2A, Sriram Nagar, Pachapalayam, Perur Chettipalayam, Coimbatore - 641010	Permanent address	:	1/127 A, School Street, Karuppam Palayam Post, Pollachi Taluk - 642004
Mobile no	:	9698057547	e-mail (official)	:	kavitha.cse@srit.org
Landline	:	-	e-mail (personal)	:	nsksrit@gmail.com
Date of joining	:	21.04.2005	Post of joining	:	Assistant Professor
No of promotions since D.O.J	:	3	Present post	:	Associate Professor – Grade 1
Present pay scale	:	Rs.15,600 - 39,100 with eligible AGP Rs.7000/-	Gross pay	:	66200
Employer ID	:	TE028	Bank account No. (Salary credited)	:	500101010539205
P.F. No	:	TN/CBE/56764/094	Group Insurance No	:	-
PAN Number	:	ATRPK4644A	Aadhar Number	:	684634731997
AICTE ID	:	1-458877309	AICTE Institution	:	1-7841521

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Educational Qualification

Degree	Specialization	Year of Passing	Name of the College	Name of the University	Class Obtained
BE	CSE	2003	Dr.Mahalingam College of Engineering and Technology, Pollachi	Bharathiar University	I
ME	CSE	2005	Karunya Institute of Technology, Coimbatore	Anna University	I
Ph.D	ICE	2018	Anna University, Chennai		I

Registration for Ph.D. with area of interest:

Year of Ph.D. Registration: 2011

Year of Ph.D. Completed: 2018

Thesis Title: Context-Aware Queue-Based Load Balancing Schemes for MANETs

Supervisor Recognition Number: Nil

Ph.D. Scholar Details

S.No.	Name of the scholar	Registration details	College	Status
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Academic Experience

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Sri Ramakrishna Institute of Technology	Associate Professor – Grade 1	21.04.2005	-	18	7	3
Total				18	7	3

Industrial Experience

Name of the Organisation	Designation	Nature of Work	Joining Date	Relieving Date	Experience		
					Years	Months	Days
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Total					-	-	-

Courses Handled

Academic Year	Semester	Course Code	Course Name	Type of Course (T / L)	Pass Percentage
2022 – 2023	ODD SEMESTER	UCSE008	Software Project Management	T	95%
		UCSE011	Mobile Computing	T	96%
	EVEN SEMESTER	UCSE002	Foundation Skills in Integrated Product Development	T	98%
		UHSG001	Indian Constitution, Democracy and World Affairs	T	100%
2021-2022	ODD SEMESTER	UCSC005	Cryptography and Network Security	T	100%
		UCSE008	Software Project Management	T	100%
	EVEN SEMESTER	UCSE002	Foundation Skills in Integrated Product Development	T	97%
		UCSG004	Python Programming for Engineers	T	73%
2020 - 2021	ODD SEMESTER	UCSE008	Software Project Management	T	100%
	EVEN SEMESTER	UCSE009	Software Engineering	T	100%
		UCSE002	Foundation Skills in Integrated Product Development	T	100%
2019 - 2020	ODD SEMESTER	CS6004	Cyber Forensics	T	92%
		UICH006	Computer Science Engineers and Society	T	100%
	EVEN SEMESTER	CS6801	Multi-Core Architectures and Programming	T	88%
		GE6075	Professional Ethics in Engineering	T	100%
2018 - 2019	EVEN SEMESTER	CS6003	Ad hoc and Sensor Networks	T	100%
		UICH006	Computer Science Engineers and Society	T	100%
	EVEN SEMESTER	CS6801	Multi-Core Architectures and	T	93%

			Programming		
		GE6075	Professional Ethics in Engineering	T	100%
2017-2018	EVEN SEMESTER	CS6801	Multi-Score Architectures and Programming	T	93%
		CS6801	Multi-core Architectures and Programming	T	86%
	ODD SEMESTER	CS6004	Cyber Forensics	T	83%
		PCSE013	Information Storage Management	T	100%
2016-2017	EVEN SEMESTER	GE6075	Professional Ethics in Engineering	T	100%
		IF7202	Cloud Computing	T	100%
	ODD SEMESTER	CS6004	Cyber Forensics	T	96%
		PCSE013	Information Storage Management	T	100%

Projects Guided

Academic Year	Semester	Project Title	UG / PG
2022 – 2023	VIII	Efficient Routing Protocol in Mobile Ad Hoc Network based on Awareness of Link Quality	UG
		A Real Time Water Quality Monitoring System Using IoT	UG
		Smart Child Safety Wearable Device Using IOT	UG
2021 - 2022	VIII	Cluster Based Routing for Heterogeneous MANETs	UG
2020- 2021	VIII	Reliable Data Delivery in Mobile Adhoc Networks	UG
2019 - 2020	VIII	Handling Selfishness in Replica Allocation over a Mobile Adhoc Network	UG
	VIII	Enabling Efficient Peer to Peer Resource sharing in Wireless Mesh Network.	UG
2018 - 2019	VIII	Congestion control in Sensor Networks using Load Estimation Techniques.	UG
	VIII	A Traffic Engineering approach for placement and selection of network services	UG
2017 -2018	VIII	Message transmission using HMAC algorithm	UG
	VIII	Congestion control using Normalized Queuing delay	UG
2016 - 2015	VIII	Dynamic routing with security considerations	UG
	VIII	Integrating Web caching and web prefetching in client-side proxies.	UG
2014- 2015	VIII	Web Content Filtering Approaches Using Artificial	UG

		Neural Networks	
	VIII	Congestion Control using Multipath Routing algorithm	UG
2013 - 2014	VIII	An Optimal Directional Routing Protocol in MANETs	UG
	VIII	Distributive Collaborative Key Management for Dynamic Peer Groups	UG

Publications

Publications	SCI / Scopus / Web of Sciences	Others
Journal	6	16
Conferences	4	7

Journal Publications (IEEE format)

1. “Efficient Routing Protocol in Mobile Ad Hoc Network based on Awareness of Link Quality”, International Journal for Science and Advance Research in Technology (IJSART), Volume 9, Issue 4, April 2023.
2. “A Real Time Water Quality Monitoring System Using IoT”, International Journal for Science and Advance Research in Technology (IJSART), Volume 9, Issue 3, March 2023.
3. “LITERATURE SURVEY ON SMART CHILD SAFETY WEARABLE DEVICE USING IOT”, International Journal of Research and Analytical Reviews (IJRAR), Volume 9, Issue 4, November 2022.
4. “Cloud Computing Model for Vehicular Ad Hoc Networks”, International Journal for Science and Advance Research in Technology (IJSART), Volume 9, Issue 3, March 2021.
5. “IOT BASED PARALYSIS PATIENT HEALTHCARE MONITORING SYSTEM”, International Journal for Science and Advance Research in Technology (IJSART), Volume 9, Issue 3, March 2021.
6. “GPS attached Smart Foot Device for Women Safety”, Turkish Online Journal of Qualitative Inquiry (TOJQI), Volume 12, Issue 7, July 2021:8387 – 8392 (Scopus Indexed)
7. “Improved Sustainable Path Allocation using Historical Backup for Node Interconnectivity Algorithm in MANET”, Turkish Online Journal of Qualitative Inquiry (TOJQI) Volume 12, Issue 8, July 2021: 3205-3221 (Scopus Indexed)
8. “Smart Hospitals E-Medico Management System”, International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8 Issue-3, September 2019 (Scopus Indexed)

9. "IoT Enabled Machine Learning for Vehicular Air Pollution Monitoring" IEEE Xplore Digital Library 2019, International Conference on Computer Communication and Informatics (ICCCI -2019), Jan. 23 – 25, 2019, Coimbatore, INDIA.
10. "Performance Analysis of Efficient Position-Based Opportunistic Routing for MANET", Springer Nature Singapore Pte Ltd. 2018. (Scopus Indexed)
11. "Intelligent Mushroom Monitoring System", International Journal of Engineering & Technology, 7 (2.33) (2018) 1238-1242
12. "CONTINUOUS AUTHENTICATION SYSTEM USING MULTIPLE MODALITIES", International Journal of Pure and Applied Mathematics, Volume 117 No. 15 2017, 1129-1142, ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version) (Scopus Indexed)
13. "Analysis of Congestion Control based on Engset loss formula-inspired queue model in wireless networks" published in Elsevier - Journal of Computers and Electrical Engineering, June 2017. (Scopus Indexed) (Anna Univ – Annexure I)
14. "Improving throughput in Hybrid Wireless Networks using P2P based Market Guided Distributed Routing mechanism" in IEEE Xplore Digital Library, Vol.1, 2016. (Scopus Indexed)
15. "Performance Analysis of Position Based Opportunistic Routing for MANET" in Springer Series 2016. (Scopus Indexed)
16. "Survey on Congestion Control in Mobile Ad Hoc Networks" in International Journal of Advanced Research Trends in Engineering and Technology (IJARTET), Volume 3, Special Issue 2, March 2016.
17. "Routing protocols in Hybrid Wireless Networks - Survey" in International Journal of Latest Trends in Engineering and Technology(IJLTET), Vol.6, Issue 2, November 2015.
18. "Survey of Cluster based routing protocols for heterogeneous MANETs" in International Journal of Computer Science and Engineering, Seventh Sense Research Group (SSRG), 2015, ISSN: 2348 – 8387
19. "Efficient Load Balancing Algorithm for MANET" in International Journal of Applied Engineering Research(IJAER), ISSN 0973-4562 Vol. 9 No. 21, 2014. (Scopus Indexed)
20. "Improving Throughput and Controlling Congestion Collapse in Mobile Ad Hoc Networks" in Bonfring International Journal of Research in Communication Engineering, Vol. 1, Special Issue, December 2011, ISSN 2250 – 110X.
21. "Promoting Fairness in Mobile Ad Hoc Networks" in Bonfring International Journal of Research in Communication Engineering, Vol. 1, Special Issue, December 2011, ISSN 2250 – 110X.
22. "Congestion Control in Mobile Ad Hoc Networks using Load Balancing Protocol" in International Journal of Mobile and Network Technologies, Vol.2, No.1, January-June 2011.

Conference Publications (IEEE format)

1. "Efficient Routing in Mobile Ad Hoc Networks based on awareness of link quality", 2nd National Conference on Recent advances in communicative electronics, March 09-10, 2023, SRM TRP Engineering College
2. " A real water quality monitoring system using IOT", International conference on Electronics, Communication and Networking, November 02, 2022, Sri Ramakrishna Institute of Technology, Coimbatore
3. "ERTHD: A Narrative Fiction Database for Emotional Intelligence", National Conference on "Information and Communication Technology" NCICT 2017, Sri Ramakrishna Institute of Technology April 29 2017
4. "Histogram Based Reversible Data Hiding with Image Quality" National Conference on " Information and Communication Technology" NCICT 2017 at Sri Ramakrishna Institute of Technology April 29 2017
5. "Performance Analysis of Efficient Position Based Opportunistic Routing For MANET", International Conference on " Emerging Research in Computing,Information, Communication and Applications" - ERCICA-2016 Nitte Meenakshi Institute of Technology (NMIT), Bangalore July 29 & 30 2016
6. "Survey on Congestion Control in Mobile Ad Hoc Networks", ISTE & IETE International Conference on Research Advances in Communication, Computation, Electrical Science and Structures, Bharathiyar Institute of Engineering for Women March 2016
7. "Improving Throughput In Hybrid Wireless Networks Using P2P Based Market Guided Distributed Routing Mechanism", Third International Conference on Advanced Computing and Communication Systems, January 2016
8. "Survey of Cluster Based Routing Protocols for Heterogeneous MANETs", Second National Conference on Research Advances in Communication, Computation, Electrical Science and Structures, March 2015
9. "Efficient Load Balancing Algorithm for MANET", International Conference on Pattern Recognition Multimedia and Signal Processing, January 2015
10. "Improving Throughput & Reliable Data Delivery in Mobile Ad Hoc Networks", Second National Conference on Research Advances in Communication, Computation, Electrical Science and Structures, Feb 2013
11. "Congestion Control in Mobile Ad Hoc Networks using Load Balancing Protocol", International Conference on "Knowledge Engineering and Networking", June 2011

Books / Book Chapters (IEEE format) --**Sponsored Research**

Project Title	Funding Agency	Amount Rs.	Duration
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Consultancy

S. No.	Organization/ Agency	Nature of Work	Amount in Rs.	Year
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Workshops / Seminars attended

1. One Day National Level Workshop on “Research Methodology and Writing Funding Proposals” on December 22 2017 at Sri Ramakrishna Institute of Technology, Coimbatore
2. Two Day National Level Workshop on “PYTHON” on August 16 and 17 2017 at Jay Shriram Group of Institutions, Tiruppur
3. One day National Level Seminar on “ The New Ages & Emerging Technologies of Cloud Computing” on July 26th 2017 at Jansons Institute of Technology, Coimbatore
4. Three days Hands-on Workshop on “Internet of Things - An Initiative” on November 28 to 30 2016 at Sri Ramakrishna Institute of Technology, Coimbatore
5. One Day Seminar on “ Artificial Intelligence” on April 09 2016 at Sri Ramakrishna Institute of Technology, Coimbatore
6. Two Day Workshop on “Android Application Development (Hands-on)” on August 8 & 9 2015 at PSG College of Technology, Coimbatore
7. One Day Workshop on “Pedagogy for Technology Enabled Learning and Effective Usage of Moodle ” on 6th August 2015 at Sri Ramakrishna Institute of Technology, Coimbatore
8. One Day Hands-on Workshop on “Launch Yourself with PHP and MySQL” on 25th July 2015 at Sri Ramakrishna Institute of Technology, Coimbatore
9. One Day Hands-on Workshop on “Android App Development program” on 11th Feb 2015 at Sri Ramakrishna Institute of Technology, Coimbatore
10. One Day Workshop on “Pedagogy for Technology Enabled Learning and Effective Usage of Moodle ” on 29th January 2015 at Sri Ramakrishna Institute of Technology, Coimbatore
11. One Day Workshop on “Linux Administration and Kernel Programming ” on 27th January 2015 at Sri Ramakrishna Institute of Technology, Coimbatore

12. One day National Seminar titled “Research Methodologies in Information and Communication Technology” organized by the Department of Information Technology on February 2 2014 at Sri Ramakrishna Institute of Technology, Coimbatore
13. Two Days’ Workshop on “HADOOP Eco System – A Practitioner Approach” on 31 January and 1st February 2014 at Sri Ramakrishna Institute of Technology, Coimbatore
14. Half Day ISTE Workshop on “Green Building Awareness” on 24th August 2013 at Sri Ramakrishna Institute of Technology, Coimbatore
15. Two Days National Workshop on “Hands-on Training in NS-2” on 16th and 17th August 2013 at SNS College of Technology, Coimbatore
16. One Day National Level Seminar titled on “Cloud Computing and Its Applications” conducted by Department of Computer Science and Engineering on 02 February, 2013 at Sri Ramakrishna Institute of Technology, Coimbatore
17. One Day Workshop on “LINUX” offered by the Spoken Tutorial Project, IIT Bombay, funded by NMEICT and MHRD, Govt of India 02 February, 2013 at Sri Ramakrishna Institute of Technology, Coimbatore
18. One Day Workshop on “PHP & MYSQL” offered by the Spoken Tutorial Project, IIT Bombay, funded by NMEICT and MHRD, Govt of India 02 February, 2013, Sri Ramakrishna Institute of Technology, Coimbatore
19. Two Day ISTE Workshop on “Akash for Education”, 11 to 21 November, 2012, Sri Ramakrishna Institute of Technology, Coimbatore
20. One Day Workshop titled “OpenSource Software” conducted by Department of Computer Science and Engineering 27 September, 2012, Sri Ramakrishna Institute of Technology, Coimbatore
21. One Day Workshop titled “Weka – Data Mining Tool” 29th of September 2011, Government College of Technology, Coimbatore
22. One Day Workshop titled “Need Based Approach for Effective Teaching”, 21 June 2011, Sri Ramakrishna Institute of Technology, Coimbatore
23. Two Days AICTE Sponsored seminar on “Advancement in Wireless Technologies and Applications” 29 – 30th April 2011 Kongu Engineering College, Perundurai, Erode
24. Two Days Workshop titled “Research Methodologies” 15th and 16th April 2011, Kumaraguru College of Technology, Coimbatore
25. Two Days ISTE Seminar on “Modern Trends in Wired and Wireless Communication” 29 and 30 December 2010 Sri Ramakrishna Institute of Technology, Coimbatore
26. One Day Workshop on “J2EE and SQL”, 24th October 2009, Karpagam University

27. Workshop on “High Impact Teaching Skills” attested by Dale Carnegie & Associates, Inc. Trainer and Wipro, 8th and 9th July 2009, Sri Krishna College of Engineering and Technology, Coimbatore
28. One Day Seminar on “Emerging Opportunities in Networking” organized by CISCO Regional Academy, 30th April 2005, Dr.Mahalingam College of Engineering and Technology
29. One Day Workshop on “Computer Hardware Dry Assembly and Networking” 22nd March 2005, Sri Ramakrishna Institute of Technology, Coimbatore

Faculty Development Program attended (from recent)

1. AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Internet of Things" during 23/08/2021 to 27/08/2021 at RAJAGOPAL POLYTECHNIC COLLEGE, Gudiyatham
2. AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Cyber Security and Incident Analysis: A Practical and Investigative approach" during 19.07.2021 to 23.07.2021 at Andhra University College of Engineering (A)
3. International Faculty Development Programme on "Challenges in Energy Management for Smart Cities" Organized by Department of Electrical and Electronics Engineering in association with Centre for Renewable Energy Technology-Aarupadai Veedu Institute of Technology from 07-06-2021 to 11-06-2021.
4. Online FDP on “Internet of Things, Robotics and Data Science” during 10.07.2020 to 12.07.2020 at PSG institute of Technology and Applied Research
5. One Week Short Term Course on “Multimedia Tools & Utilities through ICT” during 27 – 31 March 2017 at Sri Ramakrishna Institute of Technology, Coimbatore
6. Two Week ISTE STTP on “CMOS, Mixed Signal and Radio Frequency VLSI Design” on conducted by Indian Institute of Technology Kharagpur during 30th January to 4th February 2017 at Sri Ramakrishna Institute of Technology, Coimbatore.
7. Two Days Faculty Development Programme on “Rapid Development of Enterprise Applications” during 6 – 7 August 2016 at PSG College of Technology, Coimbatore
8. Four Week AICTE Approved FDP on “ Use of ICT in Education for Online and Blended Learning” during May 14, 15 ; June 4,5 ; and June 25, 26 2016 at Sri Ramakrishna Institute of Technology, Coimbatore
9. Faculty Development Programme on “CS 6702 – Graph Theory and Applications” during May 18 to May 24 2016 at Sri Ramakrishna Institute of Technology, Coimbatore

10. Faculty Development Programme on “CS 6702 – Graph Theory and Applications” during May 18 to May 24 2016 at Sri Ramakrishna Institute of Technology, Coimbatore
11. Two Week ISTE STTP Coordinator Workshop on “Introduction to Design of Algorithms” during March 16 to 21 March 2015 at Indian Institute of Technology Kharagpur
12. One Week ISTE workshop on “Computer Networking” during June 16 to June 21 2014 at Sri Ramakrishna Institute of Technology, Coimbatore
13. One Week ISTE workshop on “Computer Programming” during June 30 to July 5 2014 at Sri Ramakrishna Institute of Technology, Coimbatore
14. Two-week ISTE Workshop on “Signals & Systems” during 2nd January to 12th January 2014 at Sri Ramakrishna Institute of Technology, Coimbatore
15. Two Week ISTE Workshop on “Database Management Systems” during 21 to 31 May, 2013 at Sri Ramakrishna Institute of Technology, Coimbatore
16. One Week Workshop on “ High Impact Teaching Skills” by Dale Carnegie @ Associates, Inc. Trainer and Wipro. During 8th & 9th July 2009 at Sri Krishna College of Engineering and Technology, Coimbatore

Events Organized (from recent)

Conference

Organizing Secretary for the National Conference on “Information and Communication Technology” held on April 29 2017 at Sri Ramakrishna Institute of Technology, Coimbatore, Tamil Nadu, India.

FDP

- Coordinator for Seven Days Faculty Development and Training Programme on “Multi-Core Architectures and Programming” held from November 21 to November 27 2016 at Sri Ramakrishna Institute of Technology, Coimbatore, Tamil Nadu, India.

Workshops

- Coordinator for one day workshop on “Big Data Analytics” on 21.10.2022 at Sri Ramakrishna Institute of Technology, Coimbatore

- Coordinator for the one day national level hands-on workshop on “Controllers for IOT” on 14.07.2018 at Sri Ramakrishna Institute of Technology, Coimbatore
- Coordinator for One Day Hands on Workshop on “Mobile App Development” held on Feb 13th 2016 at Sri Ramakrishna Institute of Technology, Coimbatore, Tamil Nadu, India.
- Coordinator for Two week ISTE STTP Workshop on “Introduction to Design of Algorithms” Conducted by Indian Institute of Technology Kharagpur from May 25 to May 30, 2015 held at Sri Ramakrishna Institute of Technology, Coimbatore, Tamil Nadu, India.
- Coordinator for One Day Hands-on Workshop on “Usage of Virtual Lab” held on 30th June 2015 at CSE Lab, Sri Ramakrishna Institute of Technology, Coimbatore.
- Teaching Assistant for Two week ISTE STTP Workshop on “Computer Networking” Conducted by Indian Institute of Technology Bombay from June 30 to July 6, 2014 held at Sri Ramakrishna Institute of Technology, Coimbatore, Tamil Nadu, India.
- Coordinator for Workshop on “One Day Spoken Tutorial Based LATEX Workshop on Linux and Windows” on 07.12.2012.

Seminars

- Online Special Lecture on “Strategies for the effective management of common Neurological diseases” By Dr. K Ramdoss, Consultant Neurologist, SRH on 11.12.2021 & 10:00 am
- Online Special Lecture on “Prevention of Heart diseases” by Dr. S Balaji Consultant Cardiologist, SRH on 18.12.2021 & 02:30 pm
- Online Special Lecture on “Common Gynaecological problems in women” by Dr. M Kanmani, Consultant Obstetrics and Gynaecologist, SRH 08.01.2022 & 2:00 pm

Online Courses Completed

Sl. No.	Title	Platform
1	AWS Fundamentals: Going Cloud-Native	Coursera
2	Introduction to Internet of Things and Embedded Systems	Coursera
3	Machine Learning for All	Coursera
4	Work Smarter, Not Harder: Time Management for Personal & Professional Productivity	Coursera
5	Leadership	NPTEL
6	Cloud Computing	NPTEL
7	Introduction to Internet of Things	NPTEL
8	Introduction to Artificial Intelligence	Coursera
9	AWS Cloud Technical Essentials	Coursera
10	AWS Fundamentals: Migrating to the Cloud	Coursera
11	AWS Fundamentals: Addressing Security Risk	Coursera
12	AWS Building Serverless Applications	Coursera

Awards and Recognitions Secured

1. Won Silver Award for the product exhibited “Water Reminder App” at the International Innovation, Creativity and Technology Exhibition (i2CreaTE 2021) held on September 16th, 2021 at Perlis, Malaysia.
2. Won Gold Award for Invention entitled, “IoT Integrated Sustainable Dairy Farm to Promote Food Security and Increase Milk Yield in Indigenous Cow Breeds” exhibited at World Invention Creativity Olympic (WICO) 2018 on 02.08.18 - 4.08.18 at Seoul, Korea.
3. Won Silver Award for an invention titled “An Intelligent Mushrooms Farms” exhibited at International Engineering Invention and Innovation Exhibition (I-ENVEX) 2018 conducted by University of Malaysia Perlis on 13.04.2018 - 15.04.2018 at Malaysia.

Self-appraisal

Major Strengths

1. Hard working
2. Patience

Major Weakness

1. Trusting others
2. Kindness

Signature