NETCOMM BULLETIN

Quarterly Edition - Issue 4 - July 2022

SRM
INSTITUTE OF SCIENCE & TECHNOLOGY

School of Computing

NWC

Message from the Editor

Dear Readers,

Greetings to All.

The effort of Every Educator should be to unlock the knowledge treasure of our system and so, we have fully realized the wealth of empathy, kindness and generosity hidden in our souls and bringing out at times when required.

School of Computing is an excellent example and NWC has set its pride to touch the sky of wisdom, where everyone strives indefatigably for the achievement. This branch has been nurturing the young minds of our country for the past with the belief that" The Art of Education is the Education to Heart". We are pleased to present to you the NWC – The Networking Bulletin – Fourth issue at the start of this academic year with great pleasure and enthusiasm of inviting our grooming birds arrived from different directions and rest their wings to stay, love, enjoy, study, learn and demonstrate, adopt, inculcate, interpret, innovate and excel in networking. Enjoy every moment, you have here because in life there aren't rewinds, only flashbacks. For you to say, we have and been working hard to bring up an exhilarating flashback from the inception of the department, it's history and the events, achievements, actions, it's rise and height during the past quarter from our faculty and students.

"Success comes to those who work hard and stayed with those who don't rest on the laurels of the past".

Make weak by Time and fate but strong in will; to strive, to seek, to find… and not to yield -

"Lord Alfred Tennyson"

Dr.B.Amutha
Editorial Head

SCO NEWSLETTER HEAD

Dr. B. Amutha
Professor / School of Computing

FACULTY TEAM

Dr.V.M.Gayathri

Dr.P.Supraja

Dr.A.Helen Victoria

Dr.C.Fancy

Mr.N.Murugan

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Message from Vice Chancellor

Prof. C. Muthamizhchelvan, Ph.D
Vice Chancellor

It gives me immense pleasure to pen a note for the School of Computing's department newsletter. It is undoubtedly a perfect medium to cater to expressions, challenges, peer-to-peer influences, and many other activities executed at the department level. And when it comes from the School which houses today's trending technologies, it paves the way for a basket full of opportunities. The last three editions from all the four departments have considerably showcased their strengths and applaud able attempts of both students and faculty members in many initiatives and research, which signifies that the team is gearing up towards an ambitious path.

Ever since the inception of SRM Engineering College in 1985, we have meticulously extended our services with utmost dedication and diligence. Therefore, as a result our institution has become one of the leading higher educational institutions in the country. This year's NIRF 2022 (National Institutional Ranking Framework, MoE) ranking is one such great achievement, where all the hard work and systematic team efforts have led us to the new heights of success.

In line with the National Education Policy 2020, I strongly feel that this is the time for us to reflect, modify, consolidate and reset our benchmarks so that we remain competitive as well as yet be mindful of being good human beings. Let us be meticulous in our pursuits and aim at excellence for self and the institution. Keeping an open mind, inviting fresh ideas, setting the direction and pacing to reach the next milestone of iconic excellence in the changing education space should be our aim. Let us unfold our vision for the institution and instil the desire to do better than yesterday. I wish the entire team to continue their good efforts in creating awareness, sharing their success stories to others.

23/7/22

Prof. C. Muthamizhchelvan

VICE CHANCELLOR
SRM Institute of Science and Technology
SRM Nagar, Kattankulathur - 603203
Chengalpattu Dist. Tamilnadu, India.

Message from Registrar

Message bulletin from our Registrar
Prof. S. Ponnusamy. Ph.D.
Registrar

"Winners are not those who never fail but those who never quit". ---- Dr.APJ Abdul Kalam

SRMIST ceaselessly strives to ensure that its students become its ambassadors once they graduate, spreading knowledge, wisdom, fair play, morality, integrity and above all love, thus making the world a better place to live in. Being the best indicates providing outstanding education quality, underpinned by sound pedagogical principles and practices, industry research collaborations, national and international engagements, with practical and relevant education to students, so that we make every student shine in the industry relevant to them.

We truly believe in the provision of quality education. Emphasis is given to improve skills of learning and wholesome personality development. In this regard, SRMIST aims to provide its employees and students with appropriate training, learning opportunities, and create an environment that fosters their development.

SRMIST has readily adapted to the global demands and has spontaneously geared up to meet the global challenges by harnessing the latest technologies in education and research fronts. The School of Computing has been introducing many interesting specialization programmes and elective courses, which are in line with the trending technologies, with a view of supporting the possible cross discipline education and research. This is the need of the hour, where the world is running in the digital era. The School has indeed been in stride of upgrading its infrastructure to meet the industry needs. The move towards interdisciplinary studies, research based and interactive learning with technology integration have opened up several options as well as has created multiple challenges and opportunities towards innovation.

Our collective resilience yields powerful evidence of our progress in achieving the ambitious goals of Graduation for our budding professionals. The journey does not end here... for in the years to come, as we traverse the extra mile, we endeavour to make SRM a global reference in the academia and the industry. Let us continue this momentum to scale up further, though the competition is tougher and tighter as we move up.

Hearty congratulations to the newsletter team from School of Computing for showcasing what we have achieved in recent times. My Best Wishes to all!

Registrar
Dr. S. PONNUSAMY, Ph.D.,
Registrar
SRM Institute of Science and Technology
SRM Nagar, Kattankulathur - 603 203,

SRM Nagar, Kattankulathur - 603 203, Chengalpattu District, Tamil Nadu, India. Phone: +914427456646, Fax: 044-27452343
Email: registrar@srmist.edu.in, Website: www.srmist.edu.in

Message from Dean Desk

Warm Greetings!

We are truly a vibrant community where aspiring students prepare themselves to be responsible leaders and lifelong learners through rigorous engineering education. With students in India seeking more interdisciplinary programs and flexibility in course curriculum, SRM IST provides a holistic learning environment and ample opportunities for leadership by developing their skill sets required for their career growth.

Collaboration across disciplines, between departments cum schools is what we are working on, to address global and multifaceted societal challenges. A multidimensional outlook is always necessary for dealing with complex issues and finding apt solutions for our professional development and progress. The School of Computing has been exceptionally doing good in this aspect. We can see the extended collaborative initiatives been taken to work across multi disciplines.

Our strong connections with alumni, industry and international institutes ensure that there is no latency between the industry expectations and the curriculum offering, making education and research at SRM the best in the league. The year has had a great leap in leveraging the funding opportunities from Government of India, international institutes and industries to set up latest technology equipped laboratories and courses on emerging technologies. One such, for us to be delightedly proud is to have funds sanctioned under the Promotion of University Research and Scientific Excellence (PURSE) Scheme, DST with a total outlay of Rs. 14 Crores for developing electric mobility infrastructure and supporting networks. The PURSE project is very rarely sanctioned for the private universities and institutions.

We have initiated the students' counseling cell, department wise. The motto is to suggest and make the students understand and realize the need for their well-being, which will empower them with life skills needed to face the challenges in this dynamic world. The cell will dedicatedly motivate the students to identify their inner strength for their holistic development.

As I look back at a very successful year, I cannot help but beam with pride at the hard work and fantastic learning taking place every single day. The newsletters from the School of Computing have successfully done their best in providing the jist of departmental activities quarterly. I am honoured to be part of a team of people who are committed, compassionate and keep SRM flag flying high.

It's time now for me to wish you all a very productive academic year ahead with promises that are to be an even more action-packed.

All the best!

Prof. T. V. GOPAL Ph.D

Dean
College of Engineering and Technology

Message from Chairperson's Desk

Warm Greetings!

We have successfully stepped into the new academic year, after a year of blended expected and unexpected experiences. The year that started with the enormous challenge of online teaching and learning, saw its gradual transformation to physical mode of education.

This time our school has had a visionary focus towards many initiatives in introducing the emerging technologies to our students. Industry supported courses in Augmented and Virtual Reality technologies, Distributed Computing, Data Science, Full stack, Information visualization were offered as professional electives to the undergraduate students across the school. Integrated post-graduation courses were rolled in Cyber Security and Data Science domains.

We are proud to see our students this year being placed in top notch companies, with a remarkable placement record of 97.58% despite the global situation. While some students have well nurtured their entrepreneurial skills and have grabbed the opportunities to own and lead their start-ups, the rest have chosen to extend their academic journey abroad.

The year was successful for many faculty members who have tried their hands in consultancy ventures. Technical and academic research has taken its heads up with notable government-industry-international tie-ups and collaborative activities. This academic year our top priority lies in procuring external funded research grants.

Looking to the future, the school's vision is to address and work towards the NEP 2020 and UN's Sustainable Development Goals. We are sure of getting there by fuelling initiatives by growing our faculty-student breadth and talent, and augmenting our infrastructure to support state-of-the-art education, learning and research.

SRM's School of Computing strives to fulfill the dreams of its students as Meritorious Professionals of the future!

Dr.Revathi Venkataraman
Professor & Chairperson
School of Computing

ABOUT THE DEPARTMENT

Department of Networking and Communications under School of Computing intend to meet the expectations of the aspiring students and to add more value to the degrees offered. The Department ensures to provide quality and value-laden education for students in the traditional and contemporary areas of Cloud Computing, Computer Networks, Cyber Security, Information Technology and Internet of Things. The programs are introduced in partnership with reputed IT companies like Amazon Web services, K7 Security, Virtusa etc. The department consists of a medley of faculty members with industrial and academic experience. The Department's keen focus is towards "networks"domain specific and specialization-based placement drives for its students. The department inculcates entrepreneurial skills in budding aspirants to pitch their innovative ideas through SRM Innovation and Incubation Center. Our International and alumni connect intrigue in bridging the gap between the trio: Academics - Industry - Research.

VISION

To Nurture as globally recognisable department in imparting the students high quality education and providing high confidence, unique knowledge and research experience in the field of networking, cyber security, forensics, information technology, cognitive computing and internet of things.

MISSION

* To provide world class IT professionals with appropriate industry and research based curriculum

* To train the students in such a way that leads to entrepreneurship and develop societal need based industries

* To nourish the students as a socially responsible professionals by providing them training in personality development, ethics and leadership program.

Note from HOD

Discipline is the bridge between goals and accomplishments.
                    - Jim Rohn

The spring always comes, last year or this year or next

Where flower blooms, hope is still alive.

New semester will bring even more blossoms

When you tend a flower, no matter the amount of weeds

surrounding it, it will still grow

Nurture your passion and talents, grow it and make it bloom

No matter the hurdles, with enough resolute we can achieve our goals.

Dr.ANNAPURANI PANAIYAPPAN.K,
Professor & Head
Department of Networking and Communications,
School of Computing

Notable Projects

S.No	Name of the Funding agency	Title of the Project	Name of the Principle Investigator	Name of the Co-Principle Investigator	Month of Funded Projects Applied	Total Amount (Rs./-)	Status
1	SERB	A Biomodel Approach To Facilitate Control Of Viral Infections By Identifying Commonalities Features With Transfer Learning	Dr.A.Suresh	Dr.V.Anbarasu	April	Rs.21,99,653	In Progress
2	SERB	Performance Based Precision Agriculture For Crop Yield Estimation Using Machine Learning	Dr.R.Naresh	Dr.C.N.S.Vinoth Kumar & Dr.Annapurani Panaiyappan.K	April	Rs.33,71,212	Applied
3	SERB	Design And Development Of Ai Based Smart Agriculture Monitoring System Using Iot	Dr.M.Jeyaselvi	Dr.N. Senthamarai & Dr.S.Suchitra	May	Rs.69,14,000	Applied
4	SERB	Multiple Disease Identification And Classifications In Crops And Vegetables Using Machine Learning Techniques	Dr.K.Kalaiselvi	Dr.K.Deepa Thilak & Dr.B.Yamini	May	Rs.23,68,641	Applied
5	ISRO	Crop Growth Monitoring, Crop Yield Estimation, Crop Biophysical Parameters	Dr.L.Anand	Dr.V.R.Balasaraswathi	June	Rs.3,00,000	Applied
6	ISRO - IIRS	Flood Prone Area Mapping, Modelling/ Forecasting and Risk Assessment using Geospatial Tools (SAR, Optical, satellite Altimetry, Topographic Indices) and Geospatial Data Cube	Dr.L.Anand	Dr. Annapurani Panaiyappan.K Dr. B Yamini	June	Rs.29,53,340	Applied
7	ISRO	NLP based Solutions for Spacecraft Mission Health Management and Operations	Dr.M.Shobana	Dr.L.Anand	June	Rs.58,39,600	Applied

Patents

S.No	Month	Author	Title of the patent	Issuing Agency	Granted
1	April	Mr.K.Manikandan, Dr.Prasath	Smart Walking Stick	Indian Patent Office	Granted
2	May	Dr.Hemamalini Dr.Venkatesan	Multifunctional Test Tube	Indian Patent Office, Delhi	Granted

S.No	Month	Author	Title of the patent	Issuing Agency	Published
1	April	Dr.C.Malathy	A System And Method For Classification And Grading Of Upper-Aero Digestive Tract Tumours.	Indian Patent Office	Published
2	April	Dr.C.N.S.Vinoth Kumar, Dr.R.Naresh, Mr.K.Lakshmi Narayan	A System and Methods for providing Security and Safety of Kids using Artificial Intelligence	Intellectual Property India	Published
3	April	Dr.Anand L	An Intelligent Light For Detecting Plant Disease Using Machine Learning	Intellectual Property of India	Published
4	April	Dr.Elizabeth Jesi V	Child Education Monitoring System Using Internet Of Things	Intellectual Property India	Published
5	May	Dr.Thenmozhi M	A Smart Blockchain Based System For Dispatching Government Schemes And Funds To The Authorized People	Government of India	Published
6	May	Dr.R.Naresh, Dr.C.N.S.Vinoth Kumar	An Intelligent Vr Headset For Reducing Stress Of Bedridden Patient	Intellectual Property India	Published
7	May	Vijayalakshmi V	Building Smart Cities Applications Using Iot And Cloud-Based Architectures	Indian Patent Office	Published
8	May	Ms. Mahalakshmi P, Dr.Thenmalar S	Digital Preservation Of Tamil Manuscript Document Recognition	Patent Office, Guindy, Chennai	Published
9	May	Dr. B YAMINI	Higher Privacy Optimization For Securing Wireless Networks In Iot Environment	Intellectual Property India	Published
10	May	Dr A Vijay Vasanth	Higher Privacy Optimizations For Securing Wireless Networks In IOT Environment	Intellectual Property India, Government of India	Published
11	May	Sam Pradeepraj.T	Network Security Of Healthcare Data Using Blockchain	Office of Controller General of Patents, Designs & Trade Marks, Mumbai	Published
12	May	Lakshminarayanan R	Traffic Signal Controlling Road Side Unit For Emergency Vehicle	Indian Patent Advanced Search System - IPINDIA.COM	Published
13	June	Dr.N.Krishnaraj	Automated Telugu Printed And Handwritten Character Recognition Technology	Indian Patent Office	Published

Publications

S.No	Month	Indexing	Authors	Paper Title	Journal Name	SNIP/IF
1	April	Scopus	Samvad Gour, Dr.C N S VINOTH KUMAR	Machine Learning Methods for Stress Monitoring using Wearable Devices	2022 International Conference on Electronics and Renewable Systems	SNIP 0
2	April	Scopus	Ms.M.Sangeetha, Dr.Nimala.K	Exploration of Sentiment Analysis Techniques on a Multilingual Dataset Dealing with Tamil-English reviews	Proceedings - IEEE International Conference on Advances in Computing, Communication and Applied Informatics, ACCAI 2022	SNIP 0
3	April	Scopus	Ms.R.Sujatha, Ms.Nimala.K	Text-based Conversation Analysis Techniques on Social Media using Statistical methods	Proceedings - IEEE International Conference on Advances in Computing, Communication and Applied Informatics, ACCAI 2022	SNIP 0
4	April	SCI	Ms.Preety Verma, Dr.J.Godwin Ponsam, Mr.Rajeev Shrivastava, Mr.Ajay Kushwaha, Mr.Neelabh Sao, Mr.AL Chockalingam, Ms.Leena Bojaraj, Mr.Jaikumar R, Ms.S.Chandragandhi, Ms.Assefa Alene	Predicting Carbon Residual in Biomass Wastes Using Soft Computing Techniques	Adsorption Science and Technology	SNIP 1.135 IF 4.232
5	April	Scopus	T. M. Sheeba, S. Albert Antony Raj, Dr. M. ANAND	Pigment Epithelial Detachment Detection: A Review of Imaging Techniques and Algorithms	IEEE Xplore	SNIP 0
6	April	Scopus	Ms.Akella S. Mr.Narasimha Raju, Dr.Kayalvizhi Jayavel, Ms.T.Rajalakshmi	An IoT-Enabled Healthcare System: Auto-predictive Colorectal Cancer with Colonoscopy Images Combined with the Convolutional Neural Network	Lecture Notes in Electrical Engineering	SNIP 0.204
7	April	SCI	Mr.D.Kothandaraman, M.Manickam, A.Balasundaram, D.Pradeep, A.Arulmurugan, Arun Kumar, Sivaraman, Sita Rani, Barnali Dey, R.Balakrishna	Decentralized Link Failure Prevention Routing (DLFPR) Algorithm for Efficient Internet of Things	Intelligent Automation & Soft Computing	SNIP 0.778 IF 1.647

Publications

S.No	Month	Indexing	Authors	Paper Title	Journal Name	SNIP/IF
8	April	SCI	Ms.G.Saranya, Mr.A.Pravin	A novel feature selection approach with integrated feature sensitivity and feature correlation for improved prediction of heart disease	Journal of Ambient Intelligence and Humanized Computing	SNIP 2.085 IF 7.101
9	April	SCI	Abu Sarwar Zamani, L.Anand, Kantilal Pitambar Rane, P. Prabhu, Ahmed Mateen Buttar, Harikumar Pallathadka, Abhishek Raghuvanshi, Betty Nokobi Dugbakie	Performance of Machine Learning and Image Processing in Plant Leaf Disease Detection	Hindawi Journal of Food Quality	SNIP 1.249 IF 2.45
10	April	Scopus	T. Rajesh Kumar, R. Suresh, Dr .Kalaiselvi k.	Optimization-enabled deep convolutional network for the generation of normal speech from non-audible murmur based on multi-kernel-based features	International Journal of Wavelets, Multiresolution and Information Processing	SNIP 0.903
11	April	Scopus	S.Mithra, Dr. TYJ Naga Malleswari	An analysis of deep learning models for dry land farming applications	Applied Geomatics	SNIP 0.956
12	April	Scopus	K. Meenakshi, G. Maragatham	AdvIris: a hybrid approach to detecting adversarial iris examples using wavelet transform	International Journal of Speech Technology	SNIP 0.959
13	April	SCI	N.Krishnaraj, A.Daniel, Kavita Saini, Kiranmai Bellam	EDGE/FOG computing paradigm: The concept, platforms and toolchains	Advances in Computers	SNIP 10.868 IF 2.655
14	April	Scopus	Asha Abraham, R Kayalvizhi, Habeeb Shaik Mohideen, Anand Thiyagaraj	Malignancy Transcriptome Analysis, Tools and Deep Learning Methodologies for Prediction of Diseases	IEEE Xplore	SNIP 0
15	April	SCI	Rashmita Khilar, K.Mariyappan, Mary Subaja Christo, J.Amutharaj, T.Anitha, T.Rajendran	Artificial Intelligence-Based Security Protocols to Resist Attacks in Internet of Things	Wireless Communications and Mobile Computing	SNIP 1.024 IF 2.336
16	April	Scopus	Sagar Saxena, K. Nimala	Climate Change Misinformation Detection System	Proceedings of International Conference on Deep Learning, Computing and Intelligence	SNIP 0
17	April	SCI	Suresh Kumar R, Mahalakshmi P, Jothilakshmi R, Kavitha M S, Balamuralitharan S	Video Saliency Detection by using an Enhance Methodology Involving a Combination of 3DCNN with Histograms	INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL	SNIP 0.712 IF 2.293

Publications

S.No	Month	Indexing	Authors	Paper Title	Journal Name	SNIP/IF
18	April	SCI	Lingaraj Vanitha, Kaliannan Kalaiselvi, Rohini Venmathi Asirvatham, Thevasigamani Rajesh Kumar, Chinnasamy Karthikeyan, Durairaj Vijendra Babu, Periasamy Keerthika	Design of expert active knn classifier algorithm using flow stroop colour word test to assess flow state	Journal of Intelligent & Fuzzy Systems	SNIP 0.698 IF 1.737
19	May	Scopus	C. Rajesh Babu, Shruti Garg, Upasana Chakraborty	Spectrum Sensing and Radio Resource Allocation in Cognitive Radio Network System	Lecture Notes in Networks and Systems	SNIP 0.797
20	May	SCI	Bharathi.V, VINOTH KUMAR C N S	A real time health care cyber attack detection using ensemble classifier	Computers and Electrical Engineering	SNIP 1.608 IF 3.818
21	May	SCI	B. S. Kiruthika Devi, V Vijayakumar, Dr G Suseela, B. Prabhu Kavin, S. Sivaramakrishnan, Joel J. P. C. Rodrigues	AN IMPROVED SECURITY FRAMEWORK IN HEALTH CARE USING HYBRID COMPUTING	Malaysian Journal of Computer Science	SNIP 0.467 IF 0.7
22	May	SCI	C. Jenifa Latha, Dr .Kalaiselvi k, S. Ramanarayan, R. Srivel, S. Vani, T. V. M. Sairam	Dynamic convolutional neural network based e-waste management and optimized collection planning	concurrency and computation-practice & experience	SNIP 0.828 IF 1.536
23	May	Scopus	Yedida V. R. S. Viswanadham, Kayalvizhi Jayavel	Blockchain Implementation in IoT Privacy and Cyber Security Feasibility Study and Analysis	Lecture Notes in Electrical Engineering	SNIP 0.204
24	May	SCI	V. R. Balasaraswathi, L. Mary Shamala, Yasir Hamid, M. Pachhaiammal Alias Priya, M. Shobana, Muthukumarasamy Sugumaran	An Efficient Feature Selection for Intrusion Detection System Using B-HKNN and C2 Search Based Learning Model	Neural Processing Letters	SNIP 0.887 IF 2.908
25	May	Scopus	Jayabharathi P, Dr.Suresh A	A Comprehensive Analysis on Face Recognition using various Deep Learning Techniques	2022 International Conference on Communication, Computing and Internet of Things, IC3IoT 2022 - Proceedings	SNIP 0
26	May	SCI	M. Jeyaselvi, Rajesh Kumar Dhanaraj, M. Sathya, Fida Hussain Memon, Lalitha Krishnasamy, Kapal Dev, Wang Ziyue, Nawab Muhammad Faseeh Qureshi	A highly secured intrusion detection system for IoT using EXPSO-STFA feature selection for LAANN to detect attacks	Cluster Computing	SNIP 0.774 IF 2.04

Publications

S.No	Month	Indexing	Authors	Paper Title	Journal Name	SNIP/IF
27	May	SCI	Mr.H.Karthikeyan, G. Usha	Real-time DDoS flooding attack detection in intelligent transportation systems	Computers and Electrical Engineering	SNIP 1.755 IF 3.818
28	May	Scopus	R. Bhaskaran, K. Ramamoorthy, C. Fancy, T. Jayasankar	Replica Node Detection using Metaheuristic Algorithms in Wireless Sensor Networks	International Journal of Engineering Trends and Technology (IJETT)	SNIP 0.72
29	May	SCI	S Selvakumar, K Manikandan, S Giriranjan	ENCHANCED ENVIRONMENTAL SECURITY AWARENESS DATA STORING IN CLOUD PROVIDER	JOURNAL OF POSITIVE PSYCHOLOGY	SNIP 2.280 IF 4.197
30	May	SCI	K. Muthulakshmi, N. Krishnaraj, R. S. Ravi Sankar, A. Balakumar, S. Kanimozhi, B. Kiruthika	A Novel Anomaly Detection Method in Sensor Based Cyber-Physical Systems	Intelligent Automation & Soft Computing	SNIP 0.946 IF 3.401
31	May	sCI	Vijaya Krishna Sonthi, S. Nagarajan, N. Krishnaraj	Deep Learning Based Residual Network Features for Telugu Printed Character Recognition	Intelligent Automation & Soft Computing	SNIP 0.946 IF 3.401
32	May	SCI	V. Muthu Lakshmi, R. Radhika, G. Kalpana	Radial Restricted Boltzmann Machines with Functional Neural Network for Classification of the Fake and Real News Analysis	International Journal of uncertainty,Fuzziness and knowledge based systems	SNIP 0.548 IF 1.027
33	May	Scopus	M. Meenakshi, R. Naresh	Prediction of soil moisture root zone health in Artificial Neural Network	IEEE Xplore	SNIP 0
34	May	Scopus	A. Saranya, R. Naresh	A Survey on Mobile Payment Request Verification over Cloud using Key Distribution	IEEE Xplore	SNIP 0
35	May	Scopus	M. Sarvavnan, R. Lakshmi Narayanan, P. GowsikRaja	Trusted authority based secured and efficient infrastructure-less routing in heterogeneous vehicular adcock network	AIP Conference Proceeding	SNIP 0.262
36	May	Scopus	A.Saranya, R. Naresh	Validate Merchant Server for Secure Payment Using Key Distribution	Lecture Notes in Networks and Systems (Springer)	SNIP 0.249
37	June	Scopus	Vishal R, Lavanya V	An Survey Analysis of Security Issues in the Cloud Data Storage	IEEE Xplore	SNIP 0
38	June	Scopus	S. Ushasukhanya, S. Jothilakshmi, S. S. Sridhar	Development and optimization of deep convolutional neural network using Taguchi method for real-time electricity conservation system	International Journal of Information Technology	SNIP 0.947

Publications

S.No	Month	Indexing	Authors	Paper Title	Journal Name	SNIP/IF
39	June	Scopus	AmanTiwari, SivaniPapini, Hemamalini Venkatesan	An enhanced optimization of parallel firewalls filtering rules for scalable high-speed networks	Materials Today: Proceedings	SNIP 0.575
40	June	Scopus	C. N. S. Vinoth Kumar, Vasim Babu M, Naresh R, Lakshmi Narayanan K, Bharathi V	Real Time Door Security System With Three Point Authentication	2021 4th International Conference on Recent Trends in Computer Science and Technology (ICRTCST)	SNIP 0
41	June	Scopus	Jyothirmai Digumarthi, V. M. Gayathri	Early Prediction of Cardiac Arrhythmia using Novel Bio-inspired Algorithms	IEEE Coference	SNIP 0
42	June	Scopus	K. Deepa Thilak, S. Saranya, K. Kalaiselvi, M. Vijay Anand, K. Kumaresan	Secure Data Transmission in Wireless Adhoc Networks by Detecting Wormhole Attack	International Conference on Smart Structures and Systems (ICSSS)	SNIP 0
43	June	Scopus	Jubin Raj Nirmal, Rajath B Kiran, V.Hemamalini	Improvised multi-factor user authentication mechanism using defense in depth strategy with integration of passphrase and keystroke dynamics	Materials Today: Proceedings	SNIP 0.575
44	June	SCI	Priti Shaw, Kaustubh Pachpor, Suresh Sankaranarayanan	Explainable AI Enabled Infant Mortality Prediction Based on Neonatal Sepsis	Computer Systems Science & Engineering	SNIP 0.827 IF 4.397
45	June	Scopus	Dr.N Prasath, Ms.J.Sreemathy, Mr.P.Vigneshwaran	Driver Drowsiness Detection Using Machine Learning Algorithm	IEEE Xplore	SNIP 0

List of Consultancy Works

S.No	Name of Consultant - Faculty Name	Name of the Consultancy	Duration	Total Amount
1	Dr.M.Jeyaselvi, Dr.S.Suchitra, Dr.N.Senthamarai	Nano Technology	6 months	Rs.35,400
2	Dr.C.Fancy, Dr.M.Anand, Ms.G.Saranya	Testcom Engineers	3 months	Rs.23,600

Internships opportunities cell(IoC) Activities

Internships opportunities cell(IoC) is a group of faculty and career-growth opportunities for the peers of SRMIST. IoC has been successfully providing national and international opportunities to the students as well as the faculty members since its inception, June 2021. The idea was seeded by Dr. Revathi Venkataraman (Chairperson), School of Computing, SRMIST and is being coordinated by Dr.Kayalvizhi Jayavel (Associate Professor), NWC, SRMIST who is actively working along with the other members to get the best opportunities for the students nationally and internationally.

A team of 5 students and 6 faculty members have successfully bagged Research opportunities at the New Castle University through the virtual SAP programme.

As part of MoU with SRMIST and University of Rwanda,Dr.Kayalvizhi Jayavel met the Principal of UR and also had interation with few students towards Sensors and Actuators on IoT.

Student interns recieved appreciation from Higher Authorities towards their contribution to International Relations Office and International Oppurtunities cell (IOC).

Semester Abroad Program

SRM along with Interational Relations offers excellent oppurtunities for students to have international exposure and education through Semester Abroad program,Dual Degree program,Global Exchange program etc.It provides a unique opportunity to engineering undergraduates to secure a degree from a pool of world best universities. It offers an opportunity for the students to live, interact and learn in two different environments.

To know more about SAP Oppurtunities do visit --> **https://www.srmist.edu.in/sap/**

STUDENTS SELECTED FOR SEMESTER ABROAD PROGRAM / TWINNING PROGRAM

Register Number	:	**RA2011029010021**
Name of Student	:	**SHIRI KRISHNA BHARATH HARI** B.Tech CSE (Computer Networks) III Year
Type of Program	:	2+2 Global Exchange Program
Selected University	:	Illinois Institute of Technology Chicago, USA
Season	:	August 2022- 2024

Register Number	:	**RA1911028010075**
Name of Student	:	**SACHIT MISRA** B.Tech CSE (Cloud Computing) IV Year
Type of Program	:	Semester Abroad Program
Selected University	:	Saxion University, Netherlands
Season	:	Sep 2022 - Jan 2023

Register Number	:	**RA1911031010092**
Name of Student	:	**DHRUV BHAGWAT** B.Tech CSE (Information Technology) III Year
Type of Program	:	Semester Abroad Program
Selected University	:	Umea University, Sweden
Season	:	Oct 2022 - Jan 2023

FACULTY MEMBERS ACHIEVEMENTS

Dr.L.ANAND
Contributions to Our Department

Research

- **Dr.L.Anand** has Registered **Post Doctoral Fellow** in **South Ural State University (PDF)**

- A National Research University Chelybinshink, Russia

- Doing his research in the area IOMT based smart health care solutions for medical Patients.

- Developing an application Model for Breast cancer detection and identification in breast cancer for RussianDoctors.

South Ural State University

Projects collaborated with ISRO Scientist with Internship Students as Mentors

- Google Earth Engine for Image Processing
- Automation of Geospatial Workflow using web service Orchestration
- Digital Forensics and network security
- Classification of remotely sensed satellite image using AI approach
- Geo Tagging using OOPS research
- Aircraft Detection
- Tackling Cyber security Threats in Space and space based organization.
- Building GUI and Manipulating Remote Sensing Data

FACULTY MEMBERS ACHIEVEMENTS

S.No.	Photo	Name Of The Faculty	Name Of The Achievement	About the event in 5 lines
1		Ms. Meenakshi K	Acted as Judge for the Final Project Presentation Competition of SAEISS SELF DRIVING CAR CHALLENGE	SRMIST is organizing SAEISS Self-Driving Car Challenge First Year - Final round of competition was held on June 11 & 12 2022 at Chennai. This is the first of its kind competition conducted in India. In this event, 10 teams participated from all over India. Self-driving car is a 3 year project-based learning challenge. Year 1: Students are trained in statistics, python programming, tensor flow and machine learning. Year 2: They will be trained in MATLAB, Simulink, and Deep learning sensor fusion and computer vision. Year 3: They will integrate hardware and software.
2		Dr.G.Suseela	Guest Lecture	Dr.G.Suseela Assistant Professor, Department of Networking and Communications, has given a webinar on "Pointers in C"-on 06-05-2022 ,for the first year UG students of VELS University, Pallavaram, Chennai
3		Dr.G.Suseela	Consultancy Project Work	Dr.G.Suseela, NWC and Dr G Niranjana, CTECH have completed the consultancy project work titled "Personalized Podcast Publisher "
4		Dr.P.Balamurugan	Guest and Session Chair	"The International Conference on Intelligent Computing Humanity, Agriculture, Science and Technology (ICHASH – 2022)" organized by PG and Research Department of Computer Science, M.V.Muthaiah Government Arts College for Women, Dindigul, Tamilnadu during 26th and 27th May 2022. The conference intends to bring together scientists, engineers and practitioners from different disciplines to discuss concerns related to various computation techniques in science and technology.
5		Dr.A.Vijay Vasanth	Judge for CODIGO	Acted as Judge for determining the winners for CODIGO - A Coding Contest, conducted for all technical students belonging to various campuses of SRM, IITs, NITs , Technical Universities and colleges of all over India.
6		Dr.L.Anand	Books Published	Published a Book in the title Artificial intelligence in modern farming – A fantasy and reality with Lambert publications with ISBN 978620043121
7		Dr.B.YAMINI	REVIEWER for IAES International Journal of Artificial Intelligence (IJ-AI).	REVIEWED THE ARTICLE FOR IAES International Journal of Artificial Intelligence (IJ-AI).

FACULTY MEMBERS ACHIEVEMENTS

8		Dr.Vaishnavi Moorthy	First Prize for Power Insight - World Environment Day 2022 organized by Center for Environmental Nuclear Research, Directorate of Research, SRMIST	As a part of the WED 2022
9		Dr.Vaishnavi Moorthy	Certificate of Excellence for achieving 100% placement	Appreciation for 100% placements in J2 section of Cloud Computing Specialization with totaling of 104 placement offers by 41 eligible candidates
10		Dr.Vaishnavi Moorthy	Certificate of Excellence for achieving Highest Placement offers under "MARQUEE CATEGORY" in the School of Computing for 2022	Appreciation for achieving Highest Placement offers under "MARQUEE CATEGORY" in the School of Computing for 2018-22 Batch by the Dean, College of Engineering, SRMIST.
11		Dr.Vaishnavi Moorthy	New Samsung Prism Worklets	Currently offered worklets on "Emotional Intelligence" and "Data Personality profiling" after Certificate of Excellence for "Worklet-Sensor Mood Profiling" from Samsung PRISM R&D - an interdepartmental research activity alongside Dr.M.Pushpalatha, Professor and Head, Department of CTech.
12		Dr.N.Prasath	Contributed as a Reviewer	Received certificate of appreciation for contributing as a Reviewer in the 2022 second international conference on Computer Science, Engineering and Applications (ICCSEA) organized by the department of Computer Science and Engineering, GIET University, Gunupur-765022, Odisha, India.
13		Dr.N.Prasath	Selected as Co-Principal Investigator for 2022 SATU Joint Research Scheme.	Selected as Co-Principal Investigator for 2022 SATU Joint Research Scheme on Title" Development of Deep Learning Framework in Characterizing Ankle Sprain Severity based on Walking Biomechanics Performance" and Principal Investigator CHOW KHUEN, CHAN, University of Malaya, Malaysia.
14		Dr.V.Hemamalini	Technical reviewer	As a token of appreciation for the notable service as a Technical Reviewer for having reviewed the manuscripts submitted for the IEEE International Conference on "Smart Technologies and Systems for Next Generation Computing" held at IFET College of Engineering on 25th and 26th March 2022.
15		Dr.V.Hemamalini	Technical Reviewer	Notable service as a Technical reviewer of the manuscript SUPE-D-22-00156 for The Journal of Supercomputing.

FACULTY MEMBERS ACHIEVEMENTS

16		Dr.V.Hemamalini	Certificate of Appreciation 2022	Certificate of Appreciation for publishing 3 SCI Paper as first author during academic year 2021-2022.
17		Dr.V.Hemamalini	Certificate of Appreciation 2022	Certificate of Appreciation for publishing SCI/Scopus Paper > 5 SNIP titled "BSPC: blockchain-aided secure process control for improving the efficiency of industrial Internet of Things" during academic year 2021-2022.
18		Dr.V.Hemamalini	Certificate of Appreciation 2022	Certificate of Appreciation for Patent titled "Multi-functional Test tube" Granted during academic year 2021-2022.
19		Dr.S.Suresh	Certificate of appreciation for patent grant	Appreciated on world IP day for patent granted for the year 2022.
20		Dr.P.Supraja	Guest Speaker on Topic "Flexibility – Capacity Development Program"	Dr.P.Supraja was a Guest Speaker on Topic "Flexibility – Capacity Development Program" for Organized by Department of Oral Medicine and Radiology, SRMIST. She delivered a talk on Design thinking approaches, how to build Flexibility and adaptability to recover quickly from difficulties and toughness.
21		Dr.P.Supraja	Selected as Co-Principal Investigator for 2022 SATU Joint Research Scheme	Selected as Co-Principal Investigator for 2022 SATU Joint Research Scheme on 3 Project Titles: Artificial Intelligence of Things (AIoT), Predict the risk of Heart Disease based on Echocardiography Classification using Hybrid Deep Learning Model, Development of Nature-Inspired Feature Selectors using Enhanced Arithmetic Optimization Algorithms for Large-Scale Classification Problems.
22		Dr.P.Supraja	MOU signed between SRMIST and ExcelR Solutions	MoU signed between SRMIST and ExcelR Solutions. ExcelR is keen to support SRM by conducting student and faculty development programs on different emerging software technologies and training our students and faculties on various courses.

FACULTY MEMBERS ACHIEVEMENTS

PhD AWARDEES

Dr.M.ANAND

Dr.A.AROKIARAJ
JOVITH

Dr.GOUTHAMAN.P

Dr.P.SAVARIDASSAN

Dr.USHASUKHANYA S

Dr.VAISHNAVI
MOORTHY

Dr.A.HELEN VICTORIA

Dr.C.FANCY

Faculty Course Completion

S.No	Name	Name of the Certification Course	Conducted by
		CISCO	
1	Ms.M.Safa	IT Essentials Cisco academy	CISCO
2	Dr.S.Metilda Florence	IT Essentials Cisco academy	CISCO
		Google Cloud	
3	V.R.Balasaraswathi	Google Cloud Computing Foundation Program	Google
4	Dr.K.Kalaiselvi	Google Cloud Computing Foundation Program	Google
5	Ms.Meenakshi K	Google Cloud Computing Foundation Program	Google
6	Dr.M.Shobana	Google Cloud Computing Foundation Program	Google
7	Dr.A.Vijay Vasanth	Google Cloud Computing Foundation Program	Google
8	Dr.P.Balamurugan	Google Cloud Computing Foundation Program	Google
9	Dr.K.Deepa Thilak	Google Cloud Computing Foundation Program	Google
10	Dr.C.N.S.Vinoth Kumar	Google Cloud Computing Foundation Program	Google
11	Dr.B.YAMINI	Google Cloud Computing Foundation Program	Google
12	Dr.K.Nimala	Google Cloud Computing Foundation Program	Google
13	Dr.J.Godwin Ponsam	Google Cloud Computing Foundation Program	Google
14	Ms.G.Geetha	Google Cloud Computing Foundation Program	Google
		Oracle	
15	Ms.Lavanya V	Oracle Certified Foundations Associate	Oracle
		MATLAB	
16	Ms.Meenakshi K	Industry Certification on Matlab	Matlab
17	Ms.V.Vijayalakshmi	Industry Certification on Matlab	Matlab
18	Ms.M.Safa	Industry Certification on Matlab	Matlab
19	Dr.B.YAMINI	Industry Certification on Matlab	Matlab
20	Ms.Saisanthiya D	Industry Certification on Matlab	Matlab
21	Dr.K.Deepa Thilak	Industry Certification on Matlab	Matlab
22	Dr.G.Suseela	Industry Certification on Matlab	Matlab
23	Dr.S.Metilda Florence	Industry Certification on Matlab	Matlab
24	Dr.K.Kalaiselvi	Industry Certification on Matlab	Matlab
25	Dr.K.Nimala	Industry Certification on Matlab	Matlab
26	Dr.J.Godwin Ponsam	Industry Certification on Matlab	Matlab
27	Ms.G.Geetha	Industry Certification on Matlab	Matlab
		ISRO	
28	Ms.V.R.Balasaraswathi	Artificial Intelligence (AI) for Earth Observation (EO) and Geodata Handling and Processing	ISRO
29	Dr.N.Prasath	Artificial Intelligence (AI) for Earth Observation (EO) and Geodata Handling and Processing	ISRO
30	Dr.M.Shobana	Artificial Intelligence (AI) for Earth Observation (EO) and Geodata Handling and Processing	ISRO
31	Dr.B.YAMINI	Artificial Intelligence (AI) for Earth Observation (EO) and Geodata Handling and Processing	ISRO
		ACM	
32	Dr.V.Elizabeth Jesi	Effective Teaching of Introduction of Programming	ACM
33	Dr.P.Supraja	Effective Teaching of Introduction of Programming	ACM
34	Dr.K.A.VarunKumar	Effective Teaching of Introduction of Programming	ACM
35	Dr.M.Jeyaselvi	Effective Teaching of Data Structures	ACM
36	Dr.K.Kalaiselvi	Effective Teaching of Machine Learning	ACM
37	Ms.G.Parimala	Introduction to Programming in Python	ACM
38	Dr.K.Deepa Thilak	Effective Teaching of Machine Learning	ACM
39	Dr.S.Thanga Revathi	Effective Teaching of Machine Learning	ACM

FACULTY ARTICLE

Dr. M.B. Mukesh Krishnan

Professor & Program Co-ordinator – Cyber Security

Department of Networking and Communications

SRM Institute of Science and Technology

A Cyber Awareness Story by NIST

A small family-owned construction company made extensive use of online banking and automated clearing house (ACH) transfers. Employees logged in with both a company and user-specific ID and password. Two challenge questions had to be answered for transactions over Rs.50,000. The owner was notified that an ACH transfer of Rs.5,00,000 was initiated by an unknown source. They contacted the bank and identified that in just one week cyber criminals had made six transfers from the company bank accounts, totaling Rs.5,50,00,000.

They try to understand How?, One of their employees had opened an email from what they thought was a materials supplier but was instead a malicious email laced with malware from an imposter account. Cyber criminals were able to install malware onto the company's computers, using a keylogger to capture the banking credentials.

The bank was able to retrieve only Rs.2,00,00,000 of the stolen money in the first weeks, leaving a loss of Rs.3,50,00,000. The bank even drew over Rs2,20,00,000 on the business' line of credit to cover the fraudulent transfers. Not having a cybersecurity plan in place delayed the company response to the fraud.

The company shut down its bank account and pursued legal action to recover its losses. The business recovered the remaining Rs.3,50,00,000 with interest. No money for time and legal fees were recovered.

LESSONS LEARNED:

1. Get notified - set up transaction alerts on all credit, debit cards, and bank accounts.
2. Restrict access to sensitive accounts to only those employees who need access; change passwords often.
3. Companies should evaluate their risk and evaluate cyber liability insurance options.
4. Choose banks that offer multiple layers of authentication to access accounts and transactions.
5. Create, maintain, and practice a cyber incident response plan that is rapidly implementable.
6. Cyber criminals deliver and install malicious software via email. Train employees on email security.

PLACEMENTS

MARQUEE OFFERS (2019-2023) Batch - 07 Offers

PAYPAL

RA1911028010097
SHREYANSH PATHAK
B.Tech - Cloud Computing
Stipend - Rs.50,000 pm
CTC - Rs.20.0 LPA

RA1911030010041
YADVI BHALLA
B.Tech - Cyber Security
Stipend - Rs.50,000 pm
CTC - Rs.20.0 LPA

RA1911028010001
P NIKKILA
B.Tech - Cloud Computing
Stipend - Rs.50,000 pm
CTC - Rs.20.0 LPA

RA1911028010129
PRANJAY PODDAR
B.Tech - Cloud Computing
Stipend - Rs.50,000 pm
CTC - Rs.20.0 LPA

REVERSE LABZ

RA1911031010021
CHETAN PAREEK
B.Tech - IT
Stipend - Rs.40,000 pm
CTC - Rs.25.0 LPA

RA1911029010012
MOTATI RAM PRAKASH REDDY
B.Tech - CN
Stipend - Rs.40,000 pm
CTC - Rs.25.0 LPA

RA1911029010032
ATIMABH BARUNAHA
B.Tech - CN
Stipend - Rs.40,000 pm
CTC - Rs.25.0 LPA

MARQUEE OFFERS (2020-2024) Batch - 01 Offers

DE SHAW

RA2011028010150
ASHUTOSH R SINGH
B.Tech - Cloud Computing
Stipend - Rs.15,0000 p.m.
CTC : Rs.40.0 to Rs.45.00 LPA

PLACEMENTS

PG PLACEMENT DETAILS

RA2112033010003
TARUN SINGH
M.Tech - Cloud Computing
Bank of America Corporation
Rs.6,45,000 LPA

RA2112033010006
SASMITHA
M.Tech - Cloud Computing
Bank of America Corporation
Rs.6,45,000 LPA

RA2112033010007
E V SANDEEPKUMAR
M.Tech - Cloud Computing
Sap Labs
Rs.35,000 PM

RA2112033010009
JANANEE M
M.Tech - Cloud Computing
Trance Technologies
Rs.8,00,000 LPA

RA2112033010010
SYED SHARUKH HUSSAINY
M.Tech - Cloud Computing
Ericsson Global India Services
Rs.11,00,000 LPA

RA2112033010014
SHIVA PRASAD S
M.Tech - Cloud Computing
Bank of America Corporation
Rs.6,45,000 LPA

RA2112033010016
DINESH BABU K M
M.Tech - Cloud Computing
Sap Labs
Rs.35,000 PM

RA2012033010001
VISHAL R
M.Tech - Cloud Computing
Unisys India Private Ltd
Rs.30,000 PM

RA2012033010003
KHISHORE R RAVI
M.Tech - Cloud Computing
Unisys India Private Ltd
Rs.25,000 PM

RA2112023010001
AISWARYA RAJEEVAN
M.Tech - ISCF
Trance Technologies
Rs.8,00,000 LPA

RA2112023010008
KRITHIKA.R
M.Tech - ISCF
Tata digital Private Ltd
Rs.25,000 PM

RA2112023010010
VARSHA.P.B
M.Tech - ISCF
Tata digital Private Ltd
Rs.25,000 PM

RA2112041010003
MIHIR MOTIYANI
M.Tech - IoT
Cummins India Ltd
Rs.7,00,000 LPA

HIGHLIGHTS

12 Marquee Offers (2022 Batch) with Highest Package of **Rs.42.5 Lakhs**

7 Marquee Offers (2023 Batch) with Highest Package of **Rs.25 Lakhs**

1 Marquee Offer (2024 Batch) with Highest Package of **Rs.45 Lakhs**

2022 Batch has achieved **97.95% of Placements**,
about **60% of the students** got the package in the range of **Rs.10 to 15 Lakhs**

Placement Training Activities from APRIL 2022 to JUNE 2022

- Three mock aptitude tests were conducted on 07.04.2022 and 20.04.2022 respectively for the benefit of the students. All the questions are taken from the previous years company question papers. The test comprises of the following sections.

    a) General Aptitude
    b) Verbal
    c) Reasoning

PLACEMENTS

Placement Training Activities from APRIL 2022 to JUNE 2022

- Two technical programming based multiple choice questions were conducted on 08.04.2022 and 22.04.2022. All the questions are based on the C programming and Data Structures concepts.

- RedHat Linux (RHCSA) Training is arranged for the students and faculty members in tie up with AdvantagePro. The training session started from 14.03.2022 (Monday). Three classes per week are conducted through online. There are 12 students and 8 faculty members undergoing the course for RHCSA certification examination.

- RedHat Linux Scholarship Test is conducted for all the first year registered students on 15.05.2022. Top 10 students are identified from the test and scholarships are provided for them to undergo the RHCSA training.

SPECIALIZATIONS	REGISTRATION NUMBER	NAME	SCORE	EMAIL ADDRESS	YEAR	YEAR OF PASSING
Computer Science and Engineering	RA2111003011468	SAI TEJA MUKUNDAM	51 / 60	sm3397@srmist.edu.in	First Year	2025
Computer Science and Engineering with specialization in Cyber Security	RA2011030010074	SAKSHAM	49 / 60	saksham28122002@gmail.com	Second Year	2024
Computer Science and Engineering with specialization in Cyber Security	RA2011030010025	ANIRUDHHA SUBRAMANIAN	49 / 60	as6214@srmist.edu.in	Second Year	2024
Computer Science and Engineering with specialization in Cyber Security	RA2011030010215	KRANTI AJIT	49 / 60	ka3667@srmist.edu.in	Second Year	2024
Computer Science and Engineering with specialization in Cyber Security	RA2011030010104	KAARTHIK SAI CHARAN AYINENI	49 / 60	ka8954@srmist.edu.in	Second Year	2024
Electronics and Communication Engineering	RA21110004010371	R.PAVYA	48 / 60	sathyareddy8451@gmail.com	First Year	2025
Computer Science and Engineering	RA2111003010834	SHIVANSH GULERIA	48 / 60	ss2768@srmist.edu.in	First Year	2025
Electronics and Communication Engineering	RA2111043010066	SUBHAM SAHA	48 / 60	ss8202@srmist.edu.in	First Year	2025
Computer Science and Engineering	RA2111003010593	KAVYA MAURYA	48 / 60	kp8549@srmist.edu.in	First Year	2025
Computer Science and Engineering	RA2111003010459	ANUJ SINGH	48 / 60	am4981@srmist.edu.in	First Year	2025

PLACEMENTS

Placement Training Activities from APRIL 2022 to JUNE 2022

- Orientation on Open Source Technologies has been organized for the first year students on 18.05.2022 from 10.00 a.m. to 4.00 p.m. in collaboration with Advantage Pro and Red Hat Linux Enterprise. The following list of guest speakers were invited for the event. The event is conducted in HYBRID mode.

    1. Mr.Amarendra Mohanty, Product Manager, Ford India Ltd.
    2. Mr.Neju Paul, Consultant, RedHat India Ltd
    3. Mr.V.Sathya Narayanan, Head – Technology, Precision Informatics (M) Pvt Ltd

- Placement Mock Test series for all the SoC students,

    1. Test 02 is conducted for all the SoC students on 15.06.2022. The test comprises of both aptitude and technical questions.
    2. A Hackerrank coding test is scheduled on 30.06.2022. The test question comprises of all the levels such as Easy, Medium, Difficult.

Off-Campus Internship Highlights from APRIL 2022 to JUNE 2022

- 1 student is currently undergoing an internship in Changeologists with the stipend of Rs.40,000 per month.

- 1 student has completed his 4 month internship in Accenture Trading Corporation with the stipend of Rs.30,000 per month.

STUDENT ACHIEVEMENTS
SIIC Funding

Smart Electricity Conservation System

SIIC Funding Project Title : Smart Electricity Conservation System

Amount : Rs.2,00,000 / -

Faculty Mentor : Dr. C. Malathy, Professor -NWC
Dr. S. Ushasukhanya- Assistant Professor - NWC
Dr. T.Y.J Naga Malleswari – Associate Professor - NWC

Student Team : Ritesh Buchha, Debaditya Sen, Harshit Agarwal, Harsh Sharma

Area : Machine Learning

Team Strength : 7

Level : Prototype

Brief vision : The smart electricity conservation system is an automated system for identifying human in an indoor environment from CCTV footages, to manage the electric power resource by enabling it when human is detected and disabling it otherwise.

STUDENT ACHIEVEMENTS

CONGRATULATIONS 🎉
Team
RUBIX

Vedant Singh
RA2011051010061

Viraj Agarwal
RA2011003010262

Chetas Shree M
RA2011003011120

Kartikey Mahawar
RA2011032010041

For Winning

Defence Innovation Hackathon - 2022

RA2111032010006
SHAURYA SRINET
B.Tech CSE IoT
Team Lucky Lads secured the National finalists Position in Forerunner.

RA2011030010038
ANIRUDDHA GHOSH
B.Tech CSE Cyber Security
Successfully completed the internship program as IAM Team Manager remotely for a Los Angeles, California based volunteer-run non-profit organization.

RA1911031010071
SAKSHIL VERMA
B.Tech CSE Information Technology
Published a paper entitled "Contribution of Computer Vision in X-Ray Image Testing for Baggage Inspection at Airport Security Check" at Strad Research.

STUDENT ACHIEVEMENTS

RA2011029010029
SUMANJIT DASCHAKRABORTY
B.Tech CSE CN
Completed an Online Course on "Data Structures in C" provided by Great Learning Academy.

RA1911030010038
SNEHA SUNIL
B.Tech CSE   Cyber Security
Successfully cleared the assessment for the skill SQL Basic from Hacker Rank.

RA2011028010086
MUKUND MAHESHWARI
B.Tech CSE   Cloud Computing
Awarded as Oracle Cloud Infrastructure Foundations 2021 Certified Associate.

RA2011031010128
AAKASH KUMAR RAJ
B.Tech CSE   Information Technology
Presented at the Entrepreneurship Summit 2022 conducted by E-Cell, IIT Bombay.

RA2011028010161
ANWESH SHAW
B.Tech CSE Cloud Computing
Participated in Coding Sprint Hackathon

RA2011032010024
UMANSH AGARWAL
B.Tech CSE - IoT
Participated in CAD Hackathon

STUDENT ACHIEVEMENTS

RA2011028010087
VAIBHAVI TANDON
B.Tech CSE-Cloud Computing
Participated in Variety Show

RA2011028010137
SHIVAM KUMAR SINGH
B.Tech CSE- Cloud Computing,
Participated in Coding sprint hackathon

RA2011030010038
ANIRUDDHA GHOSH
B.Tech CSE Cyber Security
Participated in RHCSA

RA2011028010139
UJJWALSINGH RAJPUT
B.Tech CSE-Cloud Computing
Participated in CODIGO

RA2011030010051 & RA2011030010019
ANJALI THARUN & MANU SUNIL
B.Tech CSE- Cyber Security
Team Name : HOPIUM] for bagging up Rs.20,000 [Third Place] in the Hackathon
Coding Sprint event organised by Networking and Communication Association,
IoT alliance with SIIEC and Vakil search.

ALUMNI MESSAGE

PRASHANTH C

B.TECH (INFORMATION TECHNOLOGY)

(BATCH 2015-2019)

SRM gave me an experience that was very important both for my career and personal life.

It provided an opportunity to interact with people from different cultures and backgrounds.

A great platform to grow not only academically but also to identify other skills and hone them.

Professors and staff have been extremely practical and approachable.

What differentiates SRM from the rest is the freedom given to students to explore different areas and bring out their interests in a student.

Overall, my time in SRM was one of the most important phases in my life that I would cherish forever with a lot of learnings and takeaways!

STUDENT ARTICLES

GREEN CLOUD COMPUTING

Sanchita Mishra
B. Tech (IT) - IV Year

These days, the world runs on data. Technology continues to evolve, and it allows businesses to acquire more figures and statistics. It has opened a new way of how companies and organizations store this acquired information through cloud computing.

Green cloud computing is a coined term that means making the practices and approaches of using technological advances like computing and other IT resources sustainable for potential environmental benefits.

The growing number of companies around the world makes a significant impact on the environment. This growth means a great need to use data centers, an increase in the daily commute of workers, and an influx of office materials and supplies needed on a daily basis. Green cloud computing answers these looming environmental issues by providing options that can lower emitted carbon footprints around the world. Impacts of Green Cloud Computing to the Environment are:

1. Fewer Carbon Footprints Because Of Remote Workers

Cloud computing allows businesses to store their data on the internet, which means it can be accessed by anyone given the authority, no matter the location or whatever the device is being used. This opportunity presented businesses and companies the flexibility to gear their employees toward remote working.

2. Saving the Environment by Being Paperless

Gone are the days when you had to print and store all files received in your email or all of the reports you have prepared for your immediate head. With the innovative features of storing data in the cloud, you do not need large filing cabinets to store your printed copies.

3. Reduction of Your Power Consumption to Decrease Energy Use

Reduction of your company's power consumption does not only mean turning off your computer or your workstation lights when not in use. Though this can make a huge difference, you have to understand the gravity of consumed power when your company runs on-location servers. Aside from offering you convenience, flexibility, scalability, and cost efficiency, it has become a way to innovate processes and operations that would not add to the looming and growing environmental issues worldwide.

STUDENT ARTICLES

AI IN CYBER SECURITY

Harsh Srivastava
B. Tech (Cybersecurity) - IV Year

Security, in itself, is defined as "the state of being free from danger or threat" and with the world moving rapidly towards an almost absolute digitalization of data and services, the traditional standard procedures for ensuring security are becoming obsolete. The question 'why' is sure to arise in our minds as we have witnessed the current general procedures stand up to the mark and work just fine in protecting, both, the data and the users. Let us broaden our perspective to better comprehend the reason for the same.

With the human population standing just shy of 8 billion currently and the number of services being offered and taken up by individuals as well as organizations witnessing a steep growth in the past two decades, ensuring that the data would indeed not fall into wrong hands has become really difficult for, both, businesses and individuals. This has been deemed to be a result of the increase in the number of internet users and an ever-expanding abundance of data present on servers around the globe. The growth in the number of users indirectly translates to more 'bad guys' who we term as 'black hat hackers' as well. Let's understand the scenario and why this is important to us by taking an example of the very popular Denial of Service attacks.

The current procedures for preventing such attacks include the management of logs and verification of users, both manual, and have failed miserably in providing security against various DoS attacks. The use of a firewall sure does offer some protection but what happens when an attack is performed using packet fragmentation to make the request seem legit? The firewall, driven by rules (which are again set manually), fails to recognize this threat as it comprehends the flow of such packets as a regular IP packet fragmentation routine. Then the seemingly harmless and legit packets are attempted to recombine to form a comprehensible request/response. As the size of the original packet which was fragmented was far greater than the Maximum Transmission Unit of the network that the server resides in, the network is overburdened and server resources are quickly consumed resulting in a complete shut down of services. The whole process of getting inside the walls and causing harm from within almost seems like the story of the "Trojan horse", doesn't it? Now the question of 'how do we prevent this from happening' arises. Well, in layman's terms, we make a person or a team with near-perfect accuracy in distinguishing threats from routine activities sit in front of the computer 24x7 and make informed decisions about letting the request/s through. That really does sound more like a 'bot' than a 'person' to one. Wait, that rings a bell! A bot is generally an AI-driven program that focuses on automating tasks for human users. Now if we take our same firewall or an IDPS and integrate it with an AI-powered bot that constantly changes the inbound and outbound packet rules, we get a mechanism that should theoretically be able to detect and block such traffic on the go and the case seems to have been solved with the chant 'modern problems require modern solutions.'

What you just read was how a complex Cyber Security problem can be easily solved by integrating a product and solution offered by Artificial Intelligence into an existing ineffective solution. In ways similar to this, workarounds and near-ideal solutions for various other problems can be devised by integrating different fields of Computer Science but that's a story for another day.

ACTIVITY CORNER

DO YOU KNOW?

Google rents out goats

Instead of mowing their lawn, Google rents goats to eat the grass at their Mountain View headquarters.

A herder will bring 200 goats which are herded by a border collie named Jen.

The name for "robot" has dark origins

If you look into the etymology of "robot," it comes from the Czech word "robota" which translates to forced labor or work.

The word was first used to refer to a fictional humanoid in a play in 1920.

The first-ever VCR was the size of a piano

When the first VCR (Video Camera Recorder) was made in 1956, it was the size of a piano.

Megabytes used to weigh hundreds of pounds.

More specifically, 5 megabytes of data weighed one ton.

In 1956, the first computer had something similar to a hard drive.

At the time, it was a huge leap in storage capabilities, but the cabinet that contained the hard drive weighed over 2,200 pounds and could hold 5 MBs of data.

Credit card chips have been around for a LONG time

Too many, credit card chips are a relatively new fad. However, chip technology has been around since 1986!

It was first used in France, followed shortly after by Germany.

Computer Security Day is celebrated on November 30th.

It was started in 1988 to help raise awareness of computer-related security issues.
To celebrate Computer Security Day is easy, and important – check your privacy settings on Facebook, change your passwords to something stronger.
You can also read the latest technology facts and make sure your data stored on your phone, or in the cloud is secure.

ACTIVITY CORNER

DO YOU KNOW?

Apollo 11 astronauts couldn't afford insurance

Life insurance for a space mission cost a fortune because the risks were extremely high back then. So instead, the astronauts of Apollo 11 signed hundreds of covers that their families could sell in case anything went wrong.

You can spell your email in Morse code

In 2004, the @ symbol became the first new character to be added to Morse code for the first time in many decades.
The character is called a "Commat," and consists of the signals for A and C with no break in between.

Yahoo's original name was a mouthful.

The original URL for Yahoo was akebono.standford.edu. The name Yahoo was selected because it was derived from Gulliver's Travels slang, "Yahoo" which was a fictional race of beings in the book.

Bonus Fact: Amazon wasn't always Amazon either! Originally named "Cadabra.com," Cadabra was an online bookstore only.

CEO Jeff Bezos explored other options in the '90s, some of which still redirects to Amazon, like Relentless.com. Amazon was registered in 1994 and has grown into the monolith that it is today. Bonus Bonus Fact: When Snapchat first launched in 2011, it was named Picaboo.
It wasn't renamed to what we know as Snapchat until 2012.

"Android" is gender-specific

The word "Android" literally means a human with a male robot appearance.
The female equivalent of this word is a "Gynoid."

ACTIVITY CORNER
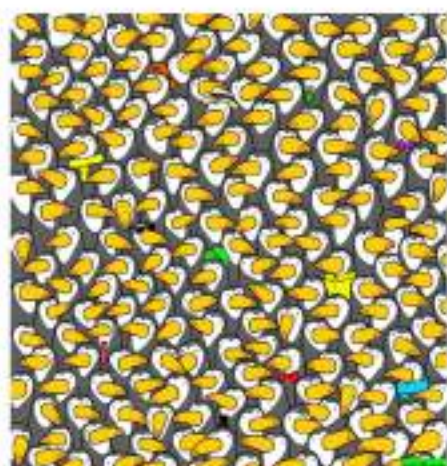
PUZZLES

Word Puzzle Brain Teasers

1 SECRET	**2** *Over* / *Over*	**3** MILL1ON
4 ___ship	**5** 🍌	**6** (clock puzzle)

Color	Red Green Yellow White		Red Green Yellow White	Red Green Yellow White	Red Green Yellow White
Nationality	Norwegian	English Danish German Swedish	English Danish German Swedish	English Danish German Swedish	English Danish German Swedish
Drink	Tea Coffee Beer Water	Tea Coffee Beer Water	Milk	Tea Coffee Beer Water	Tea Coffee Beer Water
Cigarette	Pall Mall Dunhills Blends Blue Masters Prince	Pall Mall Dunhills Blends Blue Masters Prince	Pall Mall Dunhills Blends Blue Masters Prince	Pall Mall Dunhills Blends Blue Masters Prince	Pall Mall Dunhills Blends Blue Masters Prince
Pet	Dogs Birds Cats Horses Fish	Dogs Birds Cats Horses Fish	Dogs Birds Cats Horses Fish	Dogs Birds Cats Horses Fish	Dogs Birds Cats Horses Fish

It's White's turn. How can White checkmate Black in one move?

Can you find the the **mistake**?

1 2 3 4 5 6 7 8 9

Turn Your responses here

https://docs.google.com/forms/d/e/1-FAIpQLSchHZXeqM_4xLwKTweR-Q6xF85GyboHbu8TB_255cWSnu56jWQ/viewform?usp=sf_link

Response will be appreciated in Next Newsletter

EVENTS

Research Oration

S.No	Name	Title	Date
1	Ms.M.Abinaya	IoT Security Challenges, Issues and Tools	09-04-2022
2	Mr.Shanmuganathan	Challenges and outcome of Education	09-04-2022
3	Ms.S.Tamil Selvi	Wireshark Tool	09-04-2022
4	Ms.R.Sujatha	Text Preprocessing Techniques in NLP	23-04-2022
5	Ms.G.Sangeetha	Basics of Deep Learning	30-04-2022
6	Ms.V.Jayanthi	Handwritten Character Recognition	30-04-2022
7	Ms.M.Sangeetha	Overview of Natural Language Processing	30-04-2022
8	Ms.P.Shanthi	Communication Techniques	07-05-2022
9	Ms.S.Anusha	Fundamental Steps in Digital Image Processing	14-05-2022
10	Ms.P.Jayabharathi	Standard Deep Network Architectures	21-05-2022
11	Ms.S.P.Priyadharshini	Industry 4.0	21-05-2022
12	Mr.Ghadeer Yousef	Space X	28-05-2022
13	Ms.B.Cynthia Sherin	Trends in Vehicular Technology	04-06-2022
14	Ms.B.Nagasri	Overview of Research Dataset	04-06-2022

EVENTS

Placement Talks

Getting Placed in Top Companies Vs Masters in Abroad was held on 21.04.2022

Coordinators and Co-coordinators:

Dr. V.M.Gayathri, Associate Professor, NWC

Speaker: Mr. Ashutosh Tiwari, Power

Programmer at Infosys STG Group

Placement Complacency and Self Doubt was held on 23.06.2022

Coordinators and Co-coordinators:

Dr.A.Helen Victoria, Assistant Professor, NWC

Speaker: Mr.Sanchayan Sarkar, Test

Engineer at Tesmenos

EVENTS

Alumni Talks

How to crack Interviews- Tips and tricks was held on 08.04.2022

Coordinators and Co-coordinators:

Dr. K. Nimala, Dr. J. Godwin Ponsam,

Mr. Joseph Raymond, Ms.Saveetha, Ms. Sujatha

Speaker: Mr. Kushagra Saxena, Associate Software Engineer, Optum Insight.

Diverse Growth Paths in Software Engineering Career was held on 29.04.2022

Coordinators and Co-coordinators:

Dr. A. Rathinam, Dr. K. Venkatesh, Dr. K. Nimala, Dr. J. Godwin Ponsam, Mr. Joseph Raymond, Ms.Saveetha, Ms. Sujatha

Speaker: Mrs. S. Manusree, Senior Engineer, QBurst Technologies Pvt.Ltd

Entrepreneurship Cum Make career in Salesforce was held on 20.05.2022

Coordinators and Co-coordinators:

Dr. A. Rathinam, Dr. K. Venkatesh, Dr. K. Nimala, Dr. J. Godwin Ponsam, Mr. Joseph Raymond, Ms.Saveetha, Ms. Sujatha

Speaker: Mr. Rakesh gupta, Founder of Automation Champion and Automation Hour, Author, Salesforce, MVP.

EVENTS

NWC Association Events

SRM HACKATHON 6.0 was held on 02.04.2022 and 03.04.2022

Coordinators and Co-coordinators: Ms. M. Safa, Dr.T.Sam Pradeep, Dr.Savaridassan, Dr.B.Yamini, Dr.Vijay Vasanth

Judges: Mr. Ayon Roy, Executive Data Scientist NielsenIQ, Mr. Praveen Kumar Purushothaman, Project Admin -Cats in Tech and Web Development Career path mentor at Thinkful, Mr. Kritarth Mittal, Mr. Kartikey Bhardwaj, Mr. Akash Srivastava

Hackathon Coding Sprint was held on 22.04.2022 and 23.04.2022

Coordinators and Co-coordinators: Dr. Kayalvizhi Jeyavel, Ms. M. Safa, Dr.T.Sam Pradeep, Dr.Savaridassan, Dr.B.Yamini, Dr.Vijay Vasanth

Speakers: Nitin Ravi & Abishek Gupta, Byju's – National Eminent Speaker, Founding member

Cyber Awareness talk on Recent Trends in Cyber Crime and Cyber Threats was held on 05.05.2022

Coordinators and Co-coordinators: Dr. M.B. Mukesh Krishnan, Ms. M. Safa, Dr.T.Sam Pradeep, Dr.Savaridassan, Dr.B.Yamini, Dr.Vijay Vasanth

Speaker: Dr. S. Murugan, IPS

EVENTS

NWC Association Events

Azure DevDay was held on 28.05.2022

Coordinators and Co-coordinators:
Ms. M. Safa, Dr.T.Sam Pradeep,
Dr.Savaridassan, Dr.B.Yamini,
Dr.Vijay Vasanth

Webinar on 'STRESS MANAGEMENT (Thro' Emotional Intelligence)' was held on 09.06.2022

Coordinators and Co-coordinators:
Ms. M. Safa, Dr.Savaridassan, Dr.B.Yamini,
Dr.Vijay Vasanth

Speakers: Dr. Mani Prahaspathy, Assistant Professor (Physics), Anna University, Trichy Campus

CODIGO: An Coding Event was held on 10.06.2022 and 11.06.2022

Coordinators and Co-coordinators:
Ms. M. Safa, Dr.Savaridassan, Dr.B.Yamini,
Dr.Vijay Vasanth

Speakers: Dr. Mani Prahaspathy, Assistant Professor (Physics), Anna University, Trichy Campus
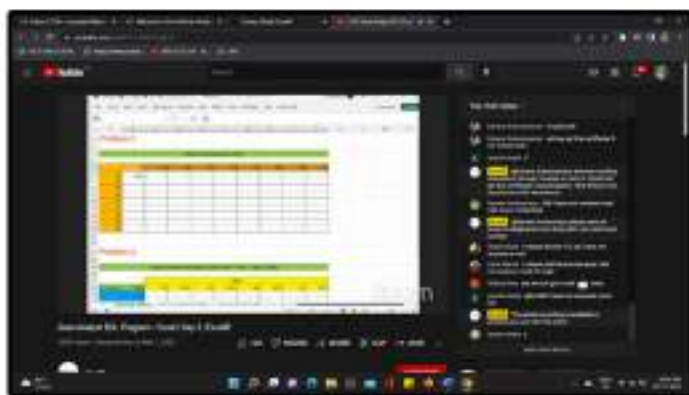
EVENTS

Other Technical Events

OWASP STUDENT CHAPTER event was held on

Coordinator: Dr. C.N.S. Vinoth Kumar

40 hrs Industrial Training program by ExcelR Solutions was held from 28/03/2022 to 25/04/2022

Coordinator: Dr. P. Supraja

Women in Tech-Open Mic Event was held on 06.05.2022

Coordinator: Dr. K. Kalaiselvi

HACK THE BOX was held on 12.05.2022

Coordinator: Dr. P. Supraja

Speaker: Mr. Chandran Subramaniam, Founder & Director, Cyberfort Digisec Solution Private Ltd.

EVENTS

Other Technical Events

Student Counselling Cell Inauguration was held on 27.05.2022

Coordinators and Co-coordinators: Dr.P.Supraja, Dr.V.M.Gayathri, Dr.M.Vaishnavi Moorthy, Dr.A.Arun, Dr.M.Shobana, Dr.A.Helen Victoria

Speaker: Dr. Bashi Sukumaran, Professor & Head, Department of Clinical Psychology, SRM Medical College and Hospital

UNHASHED: Demystifying the Blockchain was held on 06.06.2022

Coordinators: Dr.P.Supraja

SRMIST-UBA Cycle Rally for Cause "Save Fuel and Stay Fit" was held on 03.06.2022

Coordinators: Dr.P.Supraja

"கற்றதனால் ஆய பயனென்கொல் வாலறிவன்
நற்றாள் தொழாஅர் எனின்."

"Katradhanaal Aaya Payanenkol Vaalarivan
Natraal Thozhaaar Enin."

பொருள்:

தூய அறிவு வடிவாக விளங்கும் இறைவனுடைய நல்ல திருவடிகளை
தொழாமல் இருப்பாரானால், அவர் கற்ற கல்வியினால் ஆகிய பயன்
என்ன?

Explanation :

What Profit have those derived from learning, who worship not the good feet of
Him who is possessed of pure knowledge?.