



I' Storm

K.L.N. Colege of Engineering, Pottapalayam-630612

(An Autonomous Institution, Affiliated to Anna University, Chennai)

(Department of Information Technology)

June 2023



K.L.N. College of Engineering

i'Storm

Department of Information Technology



PRINCIPAL MESSAGE



It is a matter of great pride and satisfaction for K.L.N. COLLEGE OF ENGINEERING to bring out the News Letter 'I'STORM' Released from the Department of Information Technology. The College has made tremendous progress in all areas—academic, non-academics, capacity building relevant to staff and students. The College has achieved another milestone in getting NBA (National Board of Accreditation). I am confident that this issue of Department News Letter will send a positive signal to the staff, students and the person who are interested in the Technical education and Technology based activities. A News Letter is like a mirror which reflects the clear picture of all sorts of activities undertaken by a Department and develops writing skills among students in particular and teaching faculty in general. I congratulate the Editorial Board of this News Letter who have played wonderful role in accomplishing the task in Record time. I express my deep sense of gratitude to Dr. P.Ganesh Kumar, HOD/IT under whose guidance this Technical work has been undertaken and completed within the stipulated time. Also my heartfelt Congratulations to staff members and Students for their fruitful effort. With Best wishes.

PRINCIPAL

Dr. A.V. RAMPRASAD

THE EDITOR'S DESK



It gives me immense pleasure to note that response to this newsletter of our department i'STORM has been overwhelming. The wide-spectrum of articles in different sections gives me a sense of pride that our students and professors possess creative potential and original thinking in ample measures. Each article is entertaining, interesting and absorbing. I applaud the contributors for their stimulated thoughts and varied hues in articles contributed by them. Commendable job has also been done by the Editorial Board in planning for and producing the Newsletter. My congratulations to the team who took the responsibility for the arduous task most effectively. I am hopeful that this small piece of technical work shall not only develop the taste for reading among students but also develop a sense belonging to the institution as well.

H.O.D(IT)

Dr. P. GANESH KUMAR

NEWS LETTER EDITORIAL BOARD

EDITOR-IN-CHIEF:

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OUR COLLEGE:

Vision

To become a Centre of Excellence in Technical Education and Research in producing Competent and Ethical professionals to the society.

Mission

To impart Value and Need based curriculum to the students with enriched skill development in the field of Engineering, Technology, Management and Entrepreneurship and to nurture their character with social concern and to pursue their career in the areas of Research and Industry.

OUR DEPARTMENT:

Vision

To emerge as a center of excellence through innovative technical education and research in Information Technology.

Mission

To produce competent Information Technology professionals to face the industrial and societal challenges by imparting quality education with ethical values.

Program Outcome

- 1. Engineering knowledge:** *Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.*
- 2. Problem analysis:** *Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.*
- 3. Design/development of solutions:** *Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.*
- 4. Conduct investigations of complex problems:** *Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.*
- 5. Modern tool usage:** *Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.*
- 6. The engineer and society:** *Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.*
- 7. Environment and sustainability:** *Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.*
- 8. Ethics:** *Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.*
- 9. Individual and team work:** *Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.*
- 10. Communication:** *Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.*
- 11. Project management and finance:** *Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.*
- 12. Life-long learning:** *Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.*

Program Educational Objectives

- 1. To excel in industrial or graduate work in Information Technology and multi-disciplinary Environments.*
- 2. To adapt to ever changing technologies by applying Engineering Principles.*
- 3. To practice professionalism conforming to ethical values, team work and Leadership.*

Program Specific Outcomes

- 1. To create better learning environment in line with technological updation and research progress.*
- 2. To give industry exposure through research and consultancy in Information and Communication Technologies.*

CLLOUD COMPUTING

Cloud computing is the delivery of computing services—including servers, storage, databases, networking, software, analytics, and intelligence—over the Internet (“the cloud”) to offer faster innovation, flexible resources, and economies of scale.



Experts in cloud computing:

There are numerous experts in the field of

There are numerous experts in the field of cloud computing due to its widespread adoption and significance in the technology industry. Some notable experts in cloud computing include:

1. Andy Jassy:



➤ *Andy Jassy served as the CEO of Amazon Web Services (AWS) from 2016 to 2021. Under his leadership, AWS became one of the leading cloud computing providers globally.*

2. Satya Nadella:



- *Satya Nadella is the CEO of Microsoft and played a significant role in transforming the company into a major player in the cloud computing market with their Azure platform.*
- *In 2019, Nadella was named Financial Times Person of the Year and Fortune magazine Businessperson of the Year.*
- *In 2022, Nadella was awarded Padma Bhushan, the third highest civilian award in India by the Government of India.*

3. Thomas Kurian:



- *Thomas Kurian is the CEO of Google Cloud and has been instrumental in driving Google's cloud computing strategy and expanding their offerings.*
- *During his first year at Google, Kurian focused on selling G Suite applications to enterprise clients. He has reorganized the sales team to align with Sales practices of enterprise clients.*

4. Diane Greene:



AP / Mark Aronica

➤ *Diane Greene is a technology entrepreneur and executive who was the CEO of Google Cloud from 2015 to 2019. She played a key role in developing Google's cloud business.*

➤ *In 2017, Greene was recognized with Abie Award for Technical Leadership from the Anita Borg Institute as "one of the most iconic technology leaders of the last 20 years."*

5. Werner Vogels:



➤ *Werner Vogels is the CTO of Amazon.com and has been instrumental in the development and evolution of AWS, helping to shape the cloud computing industry.*

➤ *Vogels received the inaugural Holland on the Hill Heineken Award for "Substantial contributions to the US-Dutch economic relationship, a commitment to innovation and support for entrepreneurs"*

6. Ginni Rometty:



➤ *Ginni Rometty is the former CEO of IBM and has been a prominent figure in driving IBM's cloud computing initiatives, including the development of IBM Cloud.*

➤ *Ginni serves on multiple boards, including JPMorganChase and Memorial Sloan Kettering Cancer Center, and was named Fortune's #1 Most Powerful Woman three years in a row.*

7. Andy J. Bechtolsheim:



➤ *Andy Bechtolsheim is a co-founder of Sun Microsystems and has made significant contributions to the development of cloud computing technologies, including his involvement in the creation of the Open Cloud Initiative.*

➤ *Bechtolsheim received a Smithsonian Leadership Award for Innovation in 1999 and a Stanford Entrepreneur Company of the year award.*

-S. Sivaranjani (Second Year)

The key characteristics of cloud computing include:

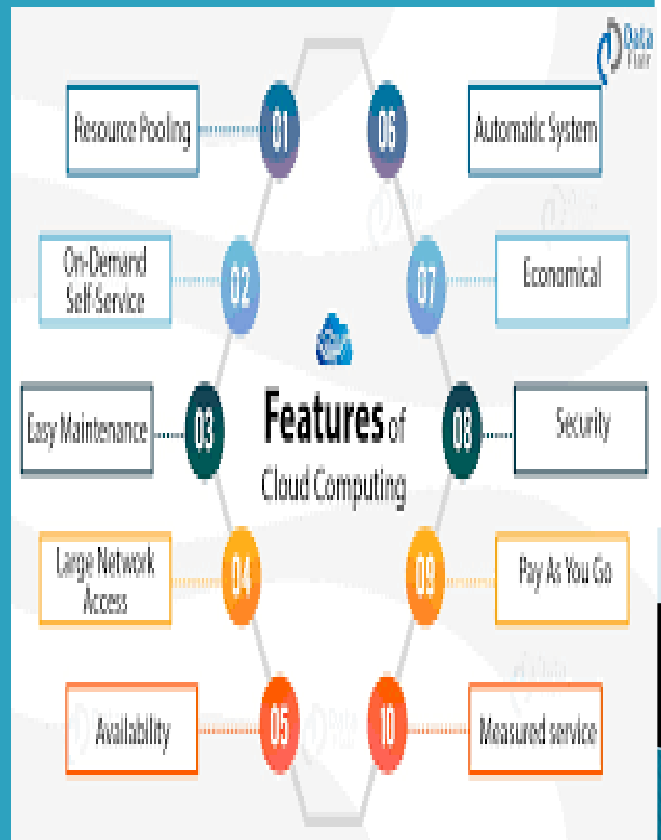
1. On-Demand Self-Service:

Users can provision and access computing resources, such as virtual machines, storage, or software applications, as needed without requiring human intervention from the service provider.

2. Broad Network Access:

Cloud services are accessible over the internet through various devices, including desktop computers, laptops, smartphones, or tablets.

Multiple users, enabling efficient utilization and scalability. Users typically have no control or knowledge of the exact location of the resources but can specify general parameters, such as geographic region or availability zone.



3. Rapid Elasticity:

Cloud resources can be scaled up or down quickly to meet changing demands. Users can dynamically increase or decrease their resource allocation based on workload requirements.

4. Measured Service:

Cloud providers monitor and track resource usage, allowing users to be billed based on the actual resources consumed.

BENEFITS

1. Scalability:

Businesses can easily scale their computing resources up or down, allowing them to

accommodate fluctuating demands without the need for significant infrastructure investments.

2. Cost Efficiency: With cloud computing, businesses can reduce or eliminate upfront infrastructure costs, such as purchasing and maintaining servers, as well as lower ongoing operational costs related to hardware maintenance and software updates.

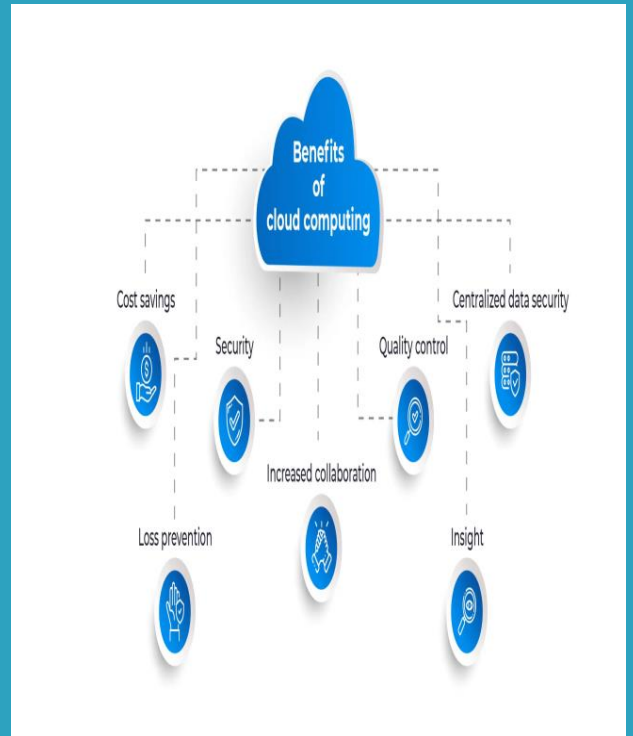


3. Flexibility and Accessibility:

Cloud services can be accessed from anywhere with an internet connection, enabling remote access, collaboration, and mobility. It provides flexibility for employees to work from different locations and access data and applications seamlessly.

4. Reliability and Availability:

Cloud service providers typically offer high levels of reliability and availability through redundant systems, backups, and disaster recovery mechanisms. This helps ensure that services are accessible and data is protected.



5. Innovation and Agility:

Cloud computing enables faster deployment of applications and services, allowing businesses to innovate and bring new products to market more quickly. It provides a platform for developers to build, test, and deploy applications rapidly.

Advantages of Cloud Computing:

1. Scalability:

Cloud computing allows businesses to easily scale their computing resources up or down based on demand. This flexibility enables cost savings by avoiding overprovisioning or underutilization of resources.

2. Cost Efficiency:

Cloud computing eliminates the need for upfront capital investments in hardware and software. Businesses can access computing resources on a pay-as-you-go basis, reducing the costs associated with purchasing, managing, and maintaining physical infrastructure.

3. Accessibility and Mobility:

Cloud services can be accessed from anywhere with an internet connection, enabling remote access, collaboration, and flexibility. Users can access data and applications from different devices, enhancing productivity and mobility.



4. Reliability and Availability:

Cloud service providers typically offer robust infrastructure with redundant systems, backups, and disaster recovery mechanisms.

–K.R. Venakataramana (Second year)

TIMELINE

PUBLICATIONS IN INTERNATIONAL / NATIONAL JOURNAL

SI. No	Name of the Author(s)	Title of the Paper	Name of the Journal	Month and Year of publication	ISSN
1	Dr. G.RAMESH - Prof/IT	Phishing detection system using random forest algorithms	International Journal of Research Trends and Innovation	Issued 4 April 2023	(ISSN 2456-3315)
2	Dr. J.S. KANCHANA - Prof/IT	3D Image Optimization using ADAM Algorithm	International Research Journal of Modernization in Engineering Technology and Science	Issued 5 April 2023	(ISSN:2582-5208)
3	Dr. J.S. KANCHANA, Prof/IT	Spam Detection Using Back Propagation Algorithm	International Journal for Scientific Research & Development	Volume 11, Issue 2, April 2023	ISSN: 2321-0613
4	Dr. J.S. KANCHANA, Prof/IT	Efficient Multi Audio Visual Speech Recognition Using Parallel Wave Gan Based Scene Classifier	International Journal of Research Trends and Innovation	Volume 8, Issued 4 April 2023	(ISSN 2456-3315)
5	Dr. S.ILANGO VAN - ASP/IT	Heart Disease Prediction Using Nearest Neighbour Algorithm	International Journal for Scientific Research & Development	Volume 11, Issue 2, April 2023	ISSN: 2321-0613
6	Dr. S.ILANGO VAN - ASP/IT	2D MRI Image Segmentation And Classification Using LSTM IN RNN	International Research Journal of Modernization in Engineering Technology and Science	Volume 5, Issued 4, April 2023	(ISSN258 2-5208)
7	Mr. A. SELVARAJ SR.GR/IT	Audio Profanity Detection and Reduction Using MLP	International Journal of Science & Engineering Development Research	Issued 4 April 2023	(ISSN 2455-2631)

8	Mr.A.SELVARAJ SR.GR/IT	Train Prediction Support Machine Delay using Vector	International Research Journal of Modernization in Engineering Technology and Science	Issued 4 April 2023	(ISSN 2582-5208)
9	Mr. M. SATHEESH KUMAR - AP/IT	Enhancement of Secure Routing Protocol for Data Transmission in the smart environment	International Journal of Science & Engineering Development Research	(Issued 4 April 2023)	(ISSN 2455-2631)
10	Mrs.S.VIJAYA SHARMILA - AP/IT	Optical character Recognition for DYSLEXIA	International Research Journal of Modernization in Engineering Technology and Science	March 2023	ISSN:2582-5208
11	Mrs.S.VIJAYA SHARMILA - AP/IT	IoT based SMART Parking System	International Journal for Research Trends and Innovation	(Volume 8, Issue 4, April 2023)	ISSN: 2456-3315
12	Mrs.S.VIJAYA SHARMILA - AP/IT	Rainfall Prediction using SVM and XGBoost Algorithm	International Journal of Science & Engineering Development Research	Issued 4 April 2023	(ISSN 2455-2631)
13	Mr.V.ARAVINDA RAJAN AP/IT	Genetic Algorithm Based Feature Selection For the Classification of Breast Masses in Mammograms	International Journal of Research Trends and Innovation	(Issued 4 April 2023)	(ISSN 2456-3315)
14	Mr.V.ARAVINDA RAJAN AP/IT	Forest Fire Prediction using Random Forest Regression Algorithm	International Research Journal of Modernization in Engineering Technology and Science	(Issued March 3 2023)	(ISSN 2582-5208)
15	Mrs.S.JENIB A AP/IT	Social BOT THAT Makes Audio Translated Video	International Research Journal of Modernization in Engineering Technology and Science	Issued 4 April 2023	(ISSN 2582-5208)

16	Mrs.S.JENIBA AP/IT	Face Emotional Detection Using Machine Learning	International Journal of Science& Engineering Development Research	Issued April 2023	(ISSN 2455- 2631)
17	R.M.SUGANYAA P/TT	Credit Card Fraud Detection Using GBC Algorithm.	International Journal of Science& Engineering Development Research	Issued 4 April 2023	(ISSN 2582- 5208)
18	T.T.MATHANGI AP/IT	Secure Medical Image Encryption And Decryption Using AES Algorithm	International Journal of Science& Engineering Development Research	Issued April 5th 2023	(ISSN 2582- 5208)
19	T.T.MATHANGI AP/IT	Editing Process For Visually Impaired People using Voice Recognition	International Research Journal of Modernization in Engineering Technology and Science	Issued April 4th 2023	(ISSN 2455- 2631)
20	N.LOGAMITHRA AP/IT	Palm Vein Recognition using DWT Algorithm	International Research Journal of Modernization in Engineering Technology and Science	Issued March 3rd 2023	(ISSN 2582- 5208)
21	Mrs.P.RAMYA, AP/IT	Crop Yeild Prediction using Recurrent Neural Network	International Research Journal of Modernization in Engineering Technology and Science	Issued April 2023	(ISSN 2582- 5208)
22	Mrs.P.RAMYA, AP/IT	Improving lighting efficiency for traffic road network using IoT	International Journal of Science& Engineering Development Research	(Issued April 2023)	(ISSN 2455- 2631)
23	N.VISHNUDEVI AP/IT	Healthcare Recommendation System Using Ann Algorithm	International Journal of Science& Engineering Development Research	(Issued April 2023)	(ISSN 2455- 2631)
24	V.GAYATRI	Detection of Social Network Spam by using Nave Bayes Classification	National Journal for Scientific Research & Development	(Issued 2 April 2023)	(ISSN 2321- 0613)
25	S.DHIVYA	Stock Marketing Prediction Using Laaso Regression	International Journal of Science& Engineering Development Research	(Issued 4 April 2023)	(ISSN 2455- 2631)
26	P.L.SUBRAMA- NIAN	Aseesing Cybersecurity Economic Risks In Virtual Power Plants Using Deep Learning	International Research Journal of Modernization in Engineering Technology and Science	(Issued 4 April 2023)	(ISS N 2582- 5208)

SHORT TERM COURSES /SEMINARS/ CONFERENCES / WORKSHOPS ATTENDED

S.No.	Name of the faculty	Title of the event, FDP/Workshop / Seminar	Date	Sponsored by (AICTE/ AU/ IEEE/ IEI/ ISTE etc.) / Self Support	Venue
1	Dr.JS.Kanchana, Professor /IT	FACULTY DEVELOPMENT PROGRAMME (FDP) IN ENTREPRENEURSHIP	03.04.23 to 15.04.23	DEPARTMENT OF SCIENCE & TECHNOLOGY, GOVT. OF INDIA, NEW DELHI	Online Mode
2	Dr.JS.Kanchana, Professor /IT	Role of Assessment and Accreditation towards Improving the quality of Education and national Educational Policy Implementation in Higher Educational Institution	08.02.23 To 10.02.23	Self (IQAC in association with NAAC)	Kamaraj College of Engineering & Technology.
3	Dr.JS.Kanchana, Professor /IT	Two days Hands-on Workshop in Machine Learning	13-1-23 & 27-1-23	IETE	VLSI Lab / ECE Department
4	Mr.A.Selvaraj, AP(Sr.Gr)/IT	FDP on Education 5.0	15.05.23 to 19.05.23	SELF	Online- Dr.MGR Educational and Research Institute, Chennai

5	Mr.M.Satheesh Kumar,AP/IT	Attended online seminar Past, present, future – Evolution of Technology and Digital Transformation	21.03.2023	Self	L&T Construction
6	Mrs.S.Vijaya sharmila AP/IT	FACULTY DEVELOPMENT PRO-GRAMME (FDP) IN ENTREPRENEURSHIP	03.04.23 to 15.04.23	DEPARTMENT OF SCIENCE & TECHNOLOGY, GOVT. OF INDIA, NEW DELHI	Online Mode
7	Mrs.S.Vijaya sharmila AP/IT	Role of Assessment and Accrediation towards Improving the quality of Education and National Educational Policy Implementaion in Higher Educational Institution	08.02.23 To 10.02.23	Self (IQAC in association with NAAC)	Kamaraj College of Engineering & Technology.
8	Mrs.S.Vijaya sharmila AP/IT	Two days Hands-on Workshop in Machine Learning	13-1-23 & 27-1-23	IETE	VLSI Lab / ECE Department
9	Mrs.S.Vijaya sharmila AP/IT	“ Cloud Practitioner (AWS) conducted”	25 th to 29 th 2022	ICT Academy	K.L.N. College of Engineering

10	Mr.V.Aravinda Rajan,AP/IT	One Week FDP on Emerging Trends in Communication and Signal Processing for Next Generation Applications	12.09.22 to 16.09.22	Self	Online - Budge Institute of Technology & NIT, Silchar
11	Mr.V.Aravinda Rajan, AP/IT	Google Cloud Community Day 2022	14.10.22	Google	Royal Court, Madurai
12	Mr.V.Aravinda Rajan, AP/IT	DRDO sponsored Two Days Workshop on Machine Learning Algorithms for Wireless Communication Network	04.11.22 to 05.11.22	DRDO	Online - Coimbatore Institute of Technology
13	Mr.V.Aravinda Rajan, AP/IT	Rf technologies on 5G	27.12.22	Self	Online - Sethu Institute of Technology
14	Mr.V.Aravinda Rajan, AP/IT	ISTE sponsored Two Days Workshop on Applications of Deep Learning Techniques in Image Retrieval	11.01.23 to 12.01.23	ISTE	Online - Mangayarkarasi College of Engineering

15	Mr.V.Aravinda Rajan, AP/IT	Five Days SERB sponsored International Workshop on Recent Trends in Semiconductor Devices/VLSI chip Devices and its sensor Applications	23.01.23 to 27.01.23	SERB	Online - KL University
16	Mr.V.Aravinda Rajan,AP/IT	Five Days FDP on Education 5.0	15.05.23 to 19.05.23	Self	Online - Dr.MGR Educational and Research Institute
17	Mr.V.Aravinda Rajan,AP/IT	One Day workshop on Embedded Yolo: Real Time Object Detection for Standalone Application	29.05.23	Self	Online - Skill-Lync
18	Mrs.S.Jeniba	Deep Learning Techniques in image Retrieval	11.01.2023 &12.01.2023	ISTE	Mangayarkarasi College of Engineering
19	Mrs.S.Jeniba	Machine Learning Algorithm for wireless communication Networks	04.11.22 & 05.11.22 (Two Days)	DRDO	Coimbatore Institute Of Technology

20	Mrs.S.Jeniba	JAVA as a Backend Development Language	24 - 05 - 2023.	Self	SRM Madurai College of Engineering and Technology
21	Mrs.S.Jeniba	2 WEEK FACULTY DEVELOPMENT PROGRAMME (FDP) IN ENTREPRENEURSHIP	03.04.23 to 15.04.23	DEPARTMENT OF SCIENCE & TECHNOLOGY, GOVT.OF INDIA, NEW DELHI	ONLINE PROGRAMME
22	Mrs.S.Jeniba	Three Day National Level Virtual Workshop on "Role of Assessment and Accreditation towards Improving the Quality of Education and National Educational Policy Implementation in Higher Educational Institution"	08.02.23 to 10.02.23	Self	Kamaraj Engineering College of Engg & Technology, Internal Quality Assurance Cell (IQAC) in association with NAAC
23	Ms.RM. Suganya, AP/IT	Webinar on "JAVA as a Backend Development Language"	24.05.2023 (One Day)	SELF	SRM Madurai College of Engineering and Technology

24	Ms.RM. Suganya, AP/IT	Workshop on "Role of Assessment and Accreditation towards Improving the Quality of Education and National Educational Policy Implementation in Higher Educational Institutions"	08.02.2023 to 10.02.2023(3 Days)	IQAC & NAAC	Kamaraj College of Engineering & Technology
25	Ms.RM. Suganya, AP/IT	Cloud Computing Faculty Training Program	26.10.2022	TNSDC – NAAN MUDHALVAN	Thiagarajar College of Engineering, Madurai (OFFLINE)
26	Ms.RM. Suganya, AP/IT	Online Workshop "Machine Learning Algorithms for Wireless Communication Networks"	04.11.2022 & 05.11.22	DRDO	Coimbatore Institute of Technology, Coimbatore
27	Mrs.T.T. Mathangi, AP/IT	Machine Learning Algorithm for wireless communication Networks	04.11.22& 05.11.22 (Two Days)	DRDO	Coimbatore Institute Of Technology
28	Mrs.T.T. Mathangi, AP/IT	Deep Learning Techniques in image Retrieval	11.01.2023 &12.01.2023	ISTE	Mangayarkarasi College of Engineering




29	Mrs.T.T. Mathangi, AP/IT	JAVA as a Backend Development Language	24 - 05 - 2023.	Self	SRM Madurai College of Engineering and Technology
30	Mrs.T.T. Mathangi, AP/IT	Three Day National Level Virtual Workshop on "Role of Assessment and Accreditation towards Improving the Quality of Education and National Educational Policy Implementation in Higher Educational Institutions"	08.02.23 to 10.02.23	Self	Kamaraj Engineering College of Engg & Technology, Internal Quality Assurance Cell (IQAC) in association with NAAC
31	Mrs.T.T. Mathangi, AP/IT	"One Week Faculty Development Program (FDP)" Soft Computing Techniques in Engineering Application	24.02.23 to 03.03.23	Self	Online FDP
32	Mrs.N. Logamithra, AP/IT	Machine Learning Algorithm for wireless communication Networks	04.11.22& 05.11.22 (Two Days)	DRDO	Coimbatore Institute Of Technology
33	Mrs.N. Logamithra, AP/IT	Deep Learning Techniques in image Retrieval	11.01.2023 &12.01.2023	ISTE	Mangayarkarasi College of Engineering

34	Mrs.N. Logamithra, AP/IT	JAVA as a Backend Development Language	24 - 05 - 2023.	Self	SRM Madurai College of Engineering and Technology
35	Mrs.N. Logamithra, AP/IT	Three Day National Level Virtual Workshop on"Role of Assessment and Accreditation towards Improving the Quality of Education and National Educational Policy Implementation in Higher Educational Institutions”	08.02.23 to 10.02.23	Self	Kamaraj Engineering College of Engg & Technology, Internal Quality Assurance Cell (IQAC) in association with NAAC
36	Mrs.N. Logamithra, AP/IT	"One Week Faculty Development Program(FDP)" Soft computing Techniques in Engineering Application	24.02.23 to 03.03.23	Self	Online FDP
37	Mrs. P.Ramya AP/IT	Role of Assessment and Accrediation towards Improving the quality of Education and National Educational Policy Implementation in Higher Educational Institutions	08.02.23 To 10.02.23	Self	Kamaraj College of Engineering & Technology.
38	Mrs. P.Ramya A P/IT	“Amazon Web Services”	22.2.23 - 27.2.23	AICTE	Adithya Engineering College



39	Mrs.P.Ramya ,A P/IT	“ Cloud Practitioner (AWS) conducted”	25 th to 29 th 2022	ICT Academy	K.L.N. College of Engineering
40	Mrs. P. Ramya, AP/IT	FDP in Entrepreneurship	03.04.2023 to 15.4.2023	Center for Entrepreneurship development (Tamil Nadu)	online
41	Mrs. N. Vishnu Devi, AP/IT	“Digital Teaching Techniques”	02.02.23 to 17.02.23	Self	ICT Academy online
42	Mrs. N.Vishnu Devi, AP/IT	2 WEEK FACULTY DEVELOPMENT PROGRAMME (FDP) IN ENTREPRENEURSHIP	03.04.23 to 15.04.23	DEPARTMENT OF SCIENCE & TECHNOLOGY, GOVT. OF INDIA, NEW DELHI	ONLINE PROGRAMME
43	Mrs. N.Vishnu Devi, AP/IT	"One Week Faculty Development Program(FDP)" Soft computing Techniques in Engineering Application	24.02.23 to 03.03.23	Self	Online FDP
44	Mrs. N.Vishnu Devi, AP/IT	Two days Hands-on Workshop in Machine Learning	13-1-23 & 27-1-23	IETE	VLSI Lab / ECE Department



45	Mrs. N.Vishnu Devi, AP/IT	Three Day National Level Virtual Workshop on "Role of Assessment and Accreditation towards Improving the Quality of Education and National Educational Policy Implementaion in Higher Educational Institutions"	08.02.23 to 10.02.23	Self	Kamaraj Engineering College of Engg & Technology, Internal Quality Assurance Cell (IQAC) in association with NAAC
46	Mr. PL. Subramanian, AP/IT	Fundamentals of Blockchain Technology	07-06-2023 (One Day)	A2Z Edu Learning	A2Z EduLearningHubLL P,India.
47	Mr.PL. Subramanian, A P/IT	JAVA as a Backend Development Language	24.05.2023 (One Day)	SELF	Organized by CSE Department, SRM College for Engineering and Technology Madurai.
48	Mrs. I. Muthu Meenatchi, AP/I T	JAVA as a Backend Development Language	24.05.2023 (One Day)	Self	SRM Madurai College of Engineering and Technology
49	Mrs. K. Rani, AP/ IT	Webminar " JAVA as a backend language"	24-05-23	SELF	SRM Madurai College of Engineering and Technology

SHORT TERM COURSES /SEMINARS/ CONFERENCES / WORKSHOPS/ SYMPOSIUM ORGANIZED

S. No	Name of the Event	Resource Person	Photos	Date	Venue
1	Placement training on “C Programming”	Mr.S.Rajendran, CEO& Founder, Mr.Sabareeswaran, Trainer, Silicon Software Services, Madurai.		07-11-2022 To 18-11-2022	IT FOSS Lab
2	Value added Course on “Advanced Air Mobility”	Experts from Honeywell Technologies Solutions, Madurai.		25-11-2022 To 26-11-2022	Smart Meeting Hall
3	Hands on Training on “IoT using NODE MCU”	Mrs.S.Indhuthi, AP/ECE		30-11-2022	IT CASE TOOLS Lab

4	Role of IT Innovation & Design Thinking	Mr.Prasanna Vijayan, Senior Software Engineer, Freshworks.		26-12-2022	Automobile CAD/CAM Lab
5	Current trends about Data Science, Machine Learning and Artificial Intelligence	Mr.Srikanth, Australia Consultant and Founder, IDSc-Madurai.		30-01-2023	Board Room.

6	<p>Four days Value added course on Cyber Security</p>	<p>Mr.Sankarraj Subramanian, Founder & CEO, Prompt Infotech, Coimbatore</p>		<p>30-1-23 to 2-2-23</p>	<p>PG Conference Hall / KLNCE</p>
7	<p>One day "Workshop on Robotics"</p>	<p>Er.M.Karthik Karuppu, Director, Profenaa Technologies, Madurai</p>		<p>28-3-23</p>	<p>IT MPMC Lab</p>

8	Two days Value added course on Cyber Security	Mr.Sankarraj Subramanian, Founder & CEO, Prompt Infotech, Coimbatore		8-5-23 & 9-5-23	IT FOSS Lab
9	Two days Core Competency program on Data Analytics using TABLEAU.	Ms.Indhumathi Gunasekaran, Data Analyst, Accenture, Chennai		12-4-23 & 13-4-23	IT FOSS Lab

10	Five days Placement training on JAVA	Mr. S. Rajendran, CEO & Founder, Silicon Software Services, Madurai.		18-1-23 To 21-1-23 & 23-1-23	IT FOSS Lab
11	Four Days Aptitude Training	Mr. N. Gururajan, Consultant cum Trainer		18-1-23 To 21-1-23	Smart Meeting Hall

STUDENTS PARTICIPATION IN NATIONAL CONFERENCES / SYMPOSIUM AND OTHER EVENTS / SPORTS ACTIVITES

S. No.	Student Name	Roll No	Event Name	Venue	Awards
1	Karthikeyan VG	205103	Hindusthan Innovation Contest (HIC)	HINDUSTHAN INSTITUTE OF TECHNOLOGY	Third Prize
	Deepan V	205323			
	Deepak V	205315			
	Mohammed Niyas A	205304			
2	Deepan V	205323	HACKATHON'23	JEEPPIAAR Engineering College (STARTUP TN)	Third Prize
	Deepak V	205315			
	Aadhithya J	205031			
	Koushick Raja B	205305			
3	Gayathre Ranga Sri R	205025	(MICRO ZOOM ZONE) STARTUP TENKASI ESTONIA OF INDIA BY 2022	TENKASI	Third Prize
	Krithiga varshini AK	205011			
4	Pon Kalpana P	205021	Open Challenge on Innovation – A Project Expo 2K23	K.L.N. College Of Engineering	Second Prize
	Santhiya K	205019			
	Sri Harini G	205325			
5	Dhanush.R	215013	Techonics	Sethu Institute of Technology	Second Prize
	Hanish Ram B	215318			
	Jones S	215337			

Extra Curricular Activities

S.No	Student Name	Roll No	Event	Organized	Prize
1.	S.S.Senthil Kumar	205112	Cricket (Men) 02.02.2023 to 06.02.2023 Anna University Chennai Zone – XVI Zonal Level	K.L.N. College of Engineering	Winners
2.	M.S. Raghul	215901			
3.	G.K..Ravichandran	215907			
4.	S.Sivaguru	215011			
5.	V.Ruban Kumar	225025			
6.	K. Suki	215025	Basket Ball (women) 12.11.2022 Anna University Chennai Zone – XVI Zonal Level	A.C.G.C.E.T	FOURTH PLACE
7.	B.Rakshitha	215012			
8.	R.Devadharshana	215327			
9.	K. Shameem Banu	195012			
10.	K.ShameemBanu	195012	Ball Badminton (Women) 09.01.2023 Anna University Chennai Zone – XVI Zonal Level	A.C.G.C.E.T	FOURTH PLACE
11.	Jeevana	225016			
12.	Abigail Kezia. R	205029			
13.	Suki.K	215025	Athletics (Women) 03.12.2022 and 04.12.2022 Anna University Chennai Zone – XVI Zonal Level Athletic Meet Hammer Throw	K.L.N. College of Engineering	Bronze Medal

14	S.S.Senthil Kumar	205112	State level cricket tournament (07.10.2022 to 10.10.2022) Syed Ammal State level inter collegiate cricket tournament	Syed Ammal college of Engineering Ramanad.	Bronze medal
	M.S. Raghul	215901			
	G.K..Ravichandran	215907			
	S.Sivaguru	215011			
	V.Ruban Kumar	225025			
15.	S.Bogar	195305	Hand ball 18.12.2022	Anna University Chennai Zone -XVI Zonal Level Thiyaraja college of Engineering	Fourth Place

Students Participation Details

S.NO	NAME	EVENT NAME	Organized institute
1.	Deepan V	Final hackathon “DevHack 2023”	Startup TN Madurai at Thiagarajar college of engineering.
2.	Aadhitya A J	Final hackathon “DevHack 2023”	Startup TN Madurai at Thiagarajar college of engineering.
3.	Karthikeyan V G	Final hackathon “DevHack 2023”	Startup TN Madurai at Thiagarajar college of engineering.
4.	Deepak V	Final hackathon “DevHack 2023”	Startup TN Madurai at Thiagarajar college of engineering.
5.	Karppaka Priya K D	10 days internship in the field of web development	At UNA INFOTECH, Madurai.
6.	Pooja A V R	10 days internship in the field of web development	At UNA INFOTECH, Madurai.
7.	Divya Dharshini A	10 days internship in the field of web development	At UNA INFOTECH, Madurai.
8.	Deva Dharshini M	10 days internship in the field of web development	At UNA INFOTECH, Madurai.
9.	Pavithra D	10 days internship in the field of web development	At UNA INFOTECH, Madurai.
10.	Sandhiya Devi T B	10 days internship in the field of web development	At UNA INFOTECH, Madurai.
11.	Swetha R	10 days internship in the field of web development	At UNA INFOTECH, Madurai.

12.	Reena Roselin J	10 days internship in the field of web development	At UNA INFOTECH, Madurai.
13.	Karthikeyan V G	Scientific Computing Using Python Workshop	Conducted by LIVEWIRE Anna nagar, Madurai.
14.	Gershonroy P	5 days of C++ Programming Essentials Boot Camp	Lets Upgrade
15.	Monikka A	Online training / Webinar on IEEE Explore	KLN college of Engineering.
16.	Monikka A	World Mathematics day Quiz Contest	KLN college of Engineering.
17.	Deva Dharshini V	10 days internship in the field of web development	At UNA INFOTECH, Madurai.
18.	Aasiya Begam S	10 days internship in the field of web development	At UNA INFOTECH, Madurai.
19.	Hanish Ram B	Bike Auction in Technics An intercollegiate Symposium	Dept of Computer science and Business Systems in association with BIZTEK.
20.	Jones S	Bike Auction in Technics An intercollegiate Symposium	Dept of Computer science and Business Systems in association with BIZTEK.
21.	Dhanush R	Bike Auction in Technics An intercollegiate Symposium	Dept of Computer science and Business Systems in association with BIZTEK.
22.	R.Vignesh	Advanced Techo Workshop series	IIT Madras Research park, Chennai

23.	R.Devadarshana	Paper Presentation at NCIET'22	Velammal College Of Engineering and Technology
24.	G.Kruthiga	Paper Presentation at NCIET'22	Velammal College Of Engineering and
25.	T.P.Boshini	Paper Presentation at NCIET'22	Velammal College Of Engineering and Technology
26.	M.IshrathMashuda	Paper Presentation at NCIET'22	Velammal College Of Engineering and Technology
27.	J.Aadhithya	Project	Velammal College Of Engineering and Technology
28.	V.Deepan	Project	Velammal College Of Engineering and Technology
29.	A.Mohammed Niyas	Project	Velammal College Of Engineering and Technology
30.	R.P.Jeevanlal	Project	Velammal College Of Engineering and Technology
31.	V.G.Karthikeyan	Project	Velammal College Of Engineering and Technology
32.	V.Deepak	Project	Velammal College Of Engineering and Technology
33.	K.V.Shyla Shree	Techonics	Sethu Institute Of Technology
34.	B.Rashiktha	Techonics	Sethu Institute Of Technology

35.	K.Suki	Techonics	Sethu Institute Of Technology
36.	S.Jones	Techonics	Sethu Institute Of Technology
37.	B.Hanish Ram	Techonics	Sethu Institute Of Technology
38.	S.SivaRanjani	Techonics	Sethu Institute Of Technology
39.	K.G.Niveetha	Kreativ'23	Kamaraj College Of Engineering and Technology
40.	R.Devadarshana	Intercollegiate Competition(2022-2023)	Palkar Engineers Forum
41.	G.Kruthiga	Intercollegiate Competition(2022-2023)	Palkar Engineers Forum
42.	R.K.Lakshmi Priya	Intercollegiate Competition(2022-2023)	Palkar Engineers Forum
43.	Lalith Kishore	Treasure Hunt(I st Prize) Zeigen 2K22-Symposium	KLNCE
44.	C.Madhan	Treasure Hunt(I st Prize) Zeigen 2K22-Symposium	KLNCE
45.	J.Kushal Singh	Treasure Hunt(I st Prize) Zeigen 2K22-Symposium	KLNCE
46.	Chandra Prakash	Treasure Hunt(I st Prize) Zeigen 2K22-Symposium	KLNCE
47.	K.R.Venkataramana	Crepitus Code Zeigen 2K22-Symposium	KLNCE
48.	R.G.Yoheswaran	Crepitus Code Zeigen 2K22-Symposium	KLNCE
49.	R.M.C Vimal	Crepitus Code Zeigen 2K22-Symposium	KLNCE
50.	Visvesh Khanna T R V	Crepitus Code Zeigen 2K22-Symposium	KLNCE
51.	V.G.Karthikeyan	Best Practices in Data Analytics	KIMO
52.	Gershon Roy P	Tech topia – Tech Fest 2023	KLNCE

53.	R.G.Yoheswaran	Workshop on Internet of Things	IIT Madras Research Park,Chennai
54.	G.K Vaishnavi	Ethical Hacking with cyber security	IIT Madras Research Park,Chennai
55.	T.Monika	Cyber Security	National Institute of Technology
56.	T.G.Mahalakshmi	Cyber Security	National Institute of Technology
57.	U.Karthikeyan	Technoholix 23	NPR College of Engineering & Technology
58.	S.A.Ahamed Faizal	Technoholix 23	NPR College of Engineering & Technology
59.	M.Mohammed Irfan	Technoholix 23	NPR College of Engineering & Technology
60.	K.Balakumar	Technoholix 23	NPR College of Engineering & Technology
61.	G.Harihararaj	Technoholix 23	NPR College of Engineering &
62.	M.Manikandaravi	Technoholix 23	NPR College of Engineering & Technology
63.	T.Aathi Sankaran	Technoholix 23	NPR College of Engineering & Technology
64.	B.Rakshitha	Workshop on Internet of Things	IIT Madras Research Park,Chennai
65.	B.Rakshitha	Maths club Odyssey	KLNCE
66.	B.Rakshitha	Techonics inter collegiate Symposium	SIT
67.	K.Suki	Workshop on Internet of Things	IIT Madras Research Park,Chennai
68.	K.Suki	Techonics inter collegiate Symposium	SIT
69.	T.S.Rindhia Sree	Workshop part of Vortex 23	National Institute of Technology
70.	L.S. Priyadharsini	Problem solving (Basic)	HackerRank

71.	L.S. Priyadharsini	Python (Basic)	HackerRank
72.	L.S. Priyadharsini	Workshop part of Vortex 23	National Institute of Technology
73.	L.S. Priyadharsini	Ethical Hacking with Cyber Security	IIT Madras Research Park, Chennai
74.	S.Sameerkhan	Darkhash 2K22 National technical symposium level	Anna University Regional Campus
75.	S.Sameerkhan	Workshop on Internet of Things	IIT Madras Research Park, Chennai
76.	J.Rohinesh	Workshop on Internet of Things	IIT Madras Research Park, Chennai
77.	S.Harini	Texpo-2K23	SIT
78.	M.Hema	Texpo-2K23 Mind Fest(Ist Prize)	SIT

INDUSTRIAL VISITS

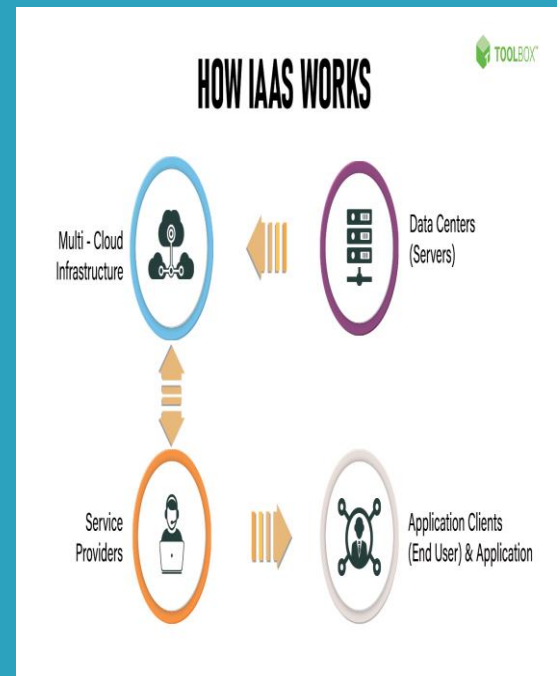
Year / Sem	Date	Industry Visited
III/VI	23.11.2022	Kodaikanal Solar Observatory.

EVOLUTION OF CLOUD COMPUTING:

Cloud computing refers to the delivery of computing resources, such as servers, storage, databases, software, and networking, over the internet. Instead of hosting and managing these resources locally on individual computers or servers, cloud computing enables access to shared and scalable resources through a network of remote servers. In cloud computing, users can access and utilize these resources on-demand, paying for only what they need and use. This provides flexibility, scalability, and cost-effectiveness compared to maintaining dedicated on-premises infrastructure.

Cloud computing typically involves three main service models:

1. Infrastructure as a Service (IaaS): IaaS provides virtualized computing resources, such as virtual machines (VMs), storage, and networks. Users have control over the operating systems, applications, and development frameworks deployed on the infrastructure.



2. Platform as a Service (PaaS): PaaS provides a platform for developing, deploying, and managing applications without the need to manage the underlying infrastructure. It typically includes the necessary runtime environments, development tools, and databases.

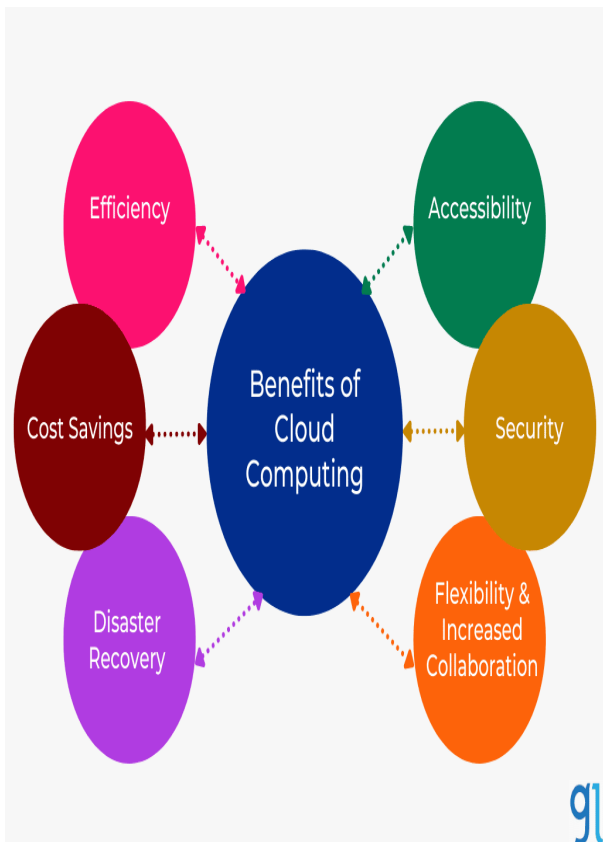
3. Software as a Service (SaaS): SaaS offers ready-to-use software applications that are accessible over the internet. Users can access these applications through web browsers or dedicated client software without the need for installation or maintenance.

Cloud computing offers several benefits, including:

- 1. Scalability:** Cloud resources can be easily scaled up or down based on demand, allowing businesses to quickly adapt to changing needs and handle high traffic or computing requirements efficiently.
- 2. Cost Efficiency:** Cloud computing eliminates the need for upfront hardware and infrastructure investments. Users only pay for the resources they consume, avoiding the costs associated with maintaining and managing physical infrastructure.

3. Flexibility and Accessibility: Cloud services can be accessed from anywhere with an internet connection, enabling remote work, collaboration, and access to data and applications on various devices.

4. Reliability and Redundancy: Cloud providers typically ensure high availability and redundancy, with multiple data centers and backup systems, minimizing the risk of data loss or service disruptions.



5. Automatic Updates and Maintenance: Cloud providers handle software updates, security patches, and infrastructure maintenance, reducing the burden on users and ensuring the systems are up-to-date and secure.



➤ **Automatic Updates and Maintenance:** Cloud providers handle software updates, security patches, and infrastructure maintenance, reducing the burden on users and ensuring the systems are up-to-date and secure.

Cloud computing is the delivery of computing resources over the internet. It allows users to access and use shared and scalable resources, such

as servers and storage, without the need for local infrastructure. It offers scalability, cost-effectiveness, and accessibility, and is categorized into three main service models: Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS). Cloud computing provides benefits such as scalability, cost efficiency, flexibility, reliability, and automatic updates and maintenance. It has revolutionized how businesses and individuals access and utilize computing resources.

–R. Dhanush (Second year)

