**SRI SAI RAM ENGINEERING COLLEGE, CHENNAI-44**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

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| Name & Photo : | Dr. M. SURESH ANAND  10 KB.jpg |
| Designation: | Professor |
| Qualification : | B.E., M.Tech.,Ph.D., |
| Area of Specialization : | Image Processing  & Mobile Computing |
| Experience : | Teaching :  UG: 2 YEARS  PG : 15 YEAR  Industry : 1 YEAR |
| No. of workshop / Conferences / FDP attended: | 11 / 19 / 24 |
| Publications : | Journals  National : -  International : 36  Conferences  National : 13  International : 6  Patent: 13  Book : 5 |
| Research Guidance : | NIL |
| General : | * Acted as Session Chair in International conference on Advanced Scientific Innovation in Science and Engineering and Technology (ICASISET '19) held inSri Sai Ram Engineering, 19 &23April2019. * Acting as department ISO Coordinator * Criteria7 in-charge in NBA * Acted as Session Chair In-charge for International Conferences ICCST’17 * Acted as Poster Presentation Chair in International conference on Computing and Communications Technologies (ICCCT '19) held inSri Sai Ram Engineering, 21& 22 February 2019. * Acted as Paper Presentation Chair in National conference on Recent Trends in Computing and Information Technology (NCRTCIT '19) held inSri Sai Ram Institute of Technology, 7th March 2019**.** * Acted as Symposium Coordinator * Acted as Time Table Coordinator for CSE department * Acted as Project & Mini-project Coordinator * Acted as Class Committee Coordinator * Life Member, International Association of Computer Science and Information Technology, IACSIT * Life Member, International Association of Engineers member, IAENG * Lab In-charge of CSE Department Lab * Life Member, Computer Society of India.(**Member# I1505853)** * Member, Institute of Electrical and Electronics Engineers, IEEE**(Member# 90928514)** |
| Staff Achievements: | * Resource Person for National Workshop on "Exploring Python" organized by Dept. of ECE, Muthayammal Engineering College , Rasipuram on 8th November, 2021. * Resource Person for RAAKCET Online Webinar Series (ROWS) Season 2 on "Exploring Python Insights” organized by Dept. of CSE, RAAK College of Engineering and Technology, Pondicherry on 25th June, 2021. * Received “Best Faculty Teaching Award” Amaravati Research Academy’s Faculty Excellence Awards 2020 on 16.03.2020. * Resource person for one-day workshop on python Hands-on Training held at Saveetha School of Engineering, Chennai on 16.11.19. * Resource person for faculty development program on problem solving and python programming held at Sri Sairam Engineering College, Chennai on 11.06.18. * Reviewer reputed International Journals like Cognitive Systems Research,Concurrency and Computation: Practice and Experience and etc. * Published papers in reputed International Journals. * Presented papers in various National and International Conferences. * Published papers in Scopus Indexed Journals. * Produced Centum result in many handled subjects |

**Professional Experience:**

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| --- | --- | --- | --- | --- |
| **Sl. No** | **College / Organization** | **Designation** | **Period** | |
| **From** | **To** |
| 1 | S.K.P Engineering College,Tiruvannamalai. | Lecturer | 17 .07. 2003 | 30.06.2005 |
| 2 | Sri Sai Ram Engineering College, Chennai | Lecturer | 23.01.2007 | 31.08.2009 |
| 3 | Sri Sai Ram Engineering College, Chennai | Assistant Professor | 01.08.2009 | 31.07.2013 |
| 4 | Sri Sai Ram Engineering College, Chennai | Associate Professor | 01.08.2013 | 30.09.2018 |
| 5 | Sri Sai Ram Engineering College, Chennai | Professor | 01.10.2018 | Till Date |

**PATENTs:**

1. Filed Indian patent on 16.10.17 the innovation titled “**An Intelligent Indian Sign Language Recognition System with Hybrid Classification Approach Using Hand Gesture Images and NAM Speech Signal**”. **(Application No 201741036635)**
2. Filed Indian patent on 06.11.19 the innovation titled **“Posture Detection and alerting system using RTSC algorithm”. (Application No 201941045066).**
3. Granted Australian patent on 07.10.20 the innovation titled **“An Intelligent Embedded Tool Recognition System for CNC Machines Using Deep Learning Algorithms”. (Patent No 2020102208).**
4. Filed Indian patent on 12.10.20 the innovation titled **“Machine Learning Based Techie Safety Belt to Prevent the Sleepiness of Drivers”. (Application No 202041044323).**
5. Filed Indian patent on 12.10.20 the innovation titled **“A Machine Learning Based Automated Toilet Cleansing System with Automated Doors”. (Application No 202041044307).**
6. Filed Indian patent on 12.10.20 the innovation titled **“An Automatic Hospital Stretcher That Monitors Vital Data’s of The Patients”. (Application No 202041044322).**
7. Filed Indian patent on 06.11.20 the innovation titled “**Smart ATM using AI and IoT Technology**”. **(Application No 202041048645)**
8. Filed Indian patent on 23.12.20 the innovation titled “**Emotion Recognition Fitness Assistance for Fitness Blenders using Mel Frequency Ceptral Coefficients (MFCC) and spectral Modulation features**”. **(Application No 202041056021)**
9. Filed Indian patent on 11.02.21 the innovation titled “**Voice Based Alerting and Assisting Tool For Visually Challenged**”. **(Application No 202141005842)**
10. Filed Indian patent on 07.04.21 the innovation titled “**Remotely Operated Vehicle (Rov) For Inspection Of The Hrt ( Head Race Tunnels) In Hydro-Electric Pla**”. **(Application No 202141016373)**
11. Filed Indian patent on 21.04.21 the innovation titled “**IOT Based Smart E-Meter**”. **(Application No 202141018332)**
12. Filed Indian patent on 26.08.21 the innovation titled “**Micro Lecture Learning System Using Speech Recognition And Machine Learning**”. **(Application No 202141038679)**
13. Filed Indian patent on 17.01.2022 the innovation titled “**Cardiovascular Disease Prediction System Using Machine Learning**”. **(Application No 202241002512)**

**FUNDS RECEIVED:**

1. Received fund from AICTE **Rs. 11,47,891/-** (reference: letter dated 18.03.20)for establishing Skill and Personality Development Cell under the Institutional Development Schemes-Skill and Personality Development Programme Centre for SC/ST Students.

**BOOKS PUBLISHED:**

1. Published a paper Book titled “**A Tutorial Approach Python Programming**”. ISBN: 9781648052699, 164805269X, Publisher: Notion press, Edition: 1 On 21 Jan 2020.
2. Published a book chapter titled **“Technical Analysis on Spammer detection using Machine Learning and data mining techniques”** in Book titled **“Machine Learning and Applications**”. ISBN: 978-93-86923-47-9, Publisher: Dipti Press PvtLtd. Chennai. Sep 2020.
3. Published a book chapter titled **“A Water Level and Dam Observing System Network Through IoT”** in Book titled **“Renewable Energy with IoT and Biomedical Applications** ” ISBN: 978-81-952585-4-3, Publisher: Dipti Press PvtLtd. Chennai. 2021.
4. Published a Text Book titled “**Augmented and Virtual Reality**”. ISBN: 978-93-90770-81-6, Publisher: Technical Publications, First Edition on Oct 2021.
5. Published a Text Book titled “**Computer Vision**”. ISBN: 978-93-90770-92-2, Publisher: Technical Publications, First Edition on Oct 2021.

**AWARDS &achievements:**

* Resource Person for National Workshop on "Exploring Python" organized by Dept. of ECE, Muthayammal Engineering College , Rasipuram on 8th November, 2021.
* Resource Person for RAAKCET Online Webinar Series (ROWS) Season 2 on "Exploring Python Insights” organized by Dept. of CSE, RAAK College of Engineering and Technology, Pondicherry on 25th June, 2021.
* Received “Best Faculty Teaching Award” Amaravati Research Academy’s Faculty Excellence Awards 2020 on 16.03.2020.
* Resource person for one-day workshop on python Hands-on Training held at Saveetha School of Engineering, Chennai on 16.11.19.
* Resource person for faculty development program on problem solving and python programming held at Sri Sairam Engineering College, Chennai on 11.06.18.
* Reviewer reputed International Journals like Cognitive Systems Research,Concurrency and Computation: Practice and Experience and etc.
* Published papers in reputed International Journals.
* Presented papers in various National and International Conferences.
* Published papers in Scopus Indexed Journals.
* Produced Centum result in many handled subjects

**general Responsibilities:**

* Acted as Session Chair in International conference on Advanced Scientific Innovation in Science and Engineering and Technology (ICASISET '19) held inSri Sai Ram Engineering, 19 &23April2019.
* Acting as department ISO Coordinator
* Criteria7 in-charge in NBA
* Acted as Session Chair In-charge for International Conferences ICCST’17
* Acted as Poster Presentation Chair in International conference on Computing and Communications Technologies (ICCCT '19) held inSri Sai Ram Engineering, 21& 22 February 2019.
* Acted as Paper Presentation Chair in National conference on Recent Trends in Computing and Information Technology (NCRTCIT '19) held inSri Sai Ram Institute of Technology, 7th March 2019**.**
* Acted as Symposium Coordinator
* Acted as Time Table Coordinator for CSE department
* Acted as Project & Mini-project Coordinator
* Acted as Class Committee Coordinator
* Life Member, International Association of Computer Science and Information Technology, IACSIT
* Life Member, International Association of Engineers member, IAENG
* Lab In-charge of CSE Department Lab
* Life Member, Computer Society of India.(**Member# I1505853)**
* Member, Institute of Electrical and Electronics Engineers, IEEE**(Member# 90928514)**

**JOURNALS & PUBLICATIONS: ( 13 SCOUPUS , 1 SCI )**

1. Published paper in International Journal of Engineering Research & Technology (IJERT) Volume 2, Issue No.7 July 2013, titled **“Device Independent & LMS Compatibility SCORM Based Hybrid Course Package Auto Generator”**.
2. Published paper in International Journal of Innovative Research and Development (IJIRD) Volume 2, Issue No.5 May 2013, titled “**Hybrid Image Segmentation Using Edge Detection with Fuzzy Thresholding for Hand Gesture Image Recognition**.
3. Published paper in International Journal of Innovative Research and Development (IJIRD) Volume 2, Issue No.5 May 2013, titled “**Indian Sign Language (ISL) Translation System for Sign Language Learning**.
4. Published paper in International Journal of Advanced Research in Computer Science (IJARS) Volume 4, No.2 Jan-Feb 2013, titled “**An Integrated Two Way ISL (Indian Sign Language) Translation System – A New Approach**”.
5. Published paper in International Journal of Emerging Technology and Advanced Engineering (IJETAE) Volume 3, Special Issue 1, January 2013, titled “**Cyclic Group Protocol: An Improved Protocol for Multicast Video Transmission in MANET**”.
6. Published paper in International Journal of Advanced & Innovative Research (IJAIR) Volume 3, Issue No.4, Apr 2014, titled “**Robust Face Recognition Technique Based on Granular Computation and Hybrid WLD Spatial Feature Extraction**”.
7. Published paper in International Journal of Advanced & Innovative Research (IJAIR) Volume 3, Issue No.4, Apr 2014, titled “**New Identities of Sybil Nodes Detection Based on RSS in MANETs**”.
8. Published a paper in an International Journal of Technical Research and Applications (IJTRA), May 2015, titled “**Protecting against Alliance Attacks by Malicious Nodes in Manets Using CBDS Technique with Originating Message**”.
9. Published a paper in an Advances in Natural and Applied Sciences (ANAS), Volume 10, Issue no. 5, May 2016, titled **“Recognition and Translation of Sign Language Using SVM”.**
10. Published a paper in an Advances in Natural and Applied Sciences (ANAS), Volume 10, Issue no. 5, May 2016, titled **“Application of L- NAM Speech in Voice Analyzer”.**
11. Paper published in Circuits and Systems , Scientific Research Publishing, Volume 7, Issue no. 10 ,May 2016, titled “**Enhancing the Efficiency of Voice Controlled Wheelchairs Using NAM for Recognizing Partial Speech in Tamil**”
12. Paper published in Circuits and Systems, Scientific Research Publishing, Volume 7, Issue no. 8, June 2016, titled “**An Efficient Framework for Indian Sign Language Recognition Using Wavelet Transform**”
13. Published a paper in IJCTA, Volume 9, Issue no. 28,November 2016, titled **“Recognition of NAM Speech - Indian English Alphabets using self-designed NAM microphone with HMM-Viterbi”**
14. Published a paper in IJCTA, Volume 9, Issue no. 28, November 2016, titled **“An Effective Recognition of Partial Speech Using Non Audible Murmur (Nam) For Speech Impaired Children”**
15. Published a paper in International Journal of Pharmacy and Technology, Volume 9, Issue no. 1, April 2017, titled **“Multimodal Features and Hybrid Classification for Indian Sign Language Recognition”**
16. Published a paper in International Journal Of Advances In Signal And Image Sciences, Volume 3, Issue no. 1, June 2017, titled **“Curvelet Transform And Hmm Classifier Based Sign Language Recognition System”**
17. Published a paper in Indian Journal of Public Health Research & Development, Volume 9, Issue no. 2, February 2018, titled **“Developing Indian Sign Language Recognition System for Recognizing English Alphabets with Hybrid Classification Approach”**
18. Published a paper in Indian Journal of Public Health Research & Development, Volume 9, Issue no. 2, February 2018, titled **“Anonymous Location-Support and Self-Reliance Routing Protocol For MANET”**
19. Published a paper in Indian Journal of Public Health Research & Development, Volume 9, Issue no. 2, February 2018, titled **“Energy-Efficient and Corrective Algorithm for Improving Stability in Wireless Sensor Networks”**
20. Published a paper in Indian Journal of Public Health Research & Development, Volume 9, Issue no. 2, February 2018, titled **“Reliable Link and Mobile-Based Optimized Routing Scheme for MANETs”**
21. Published a paper in Indian Journal of Public Health Research & Development, Volume 9, Issue no. 3, March 2018, titled **“Probabilistic Broadcast Protocol for Data Gathering using neighbour nodes in Mobile IoT”**
22. Published a paper in International Journal of Engineering & Technology, Volume 7, Issue no. 2.33, June 2018, titled **“Highly sensitive-pin-accessibility for ATM using human body communication”.**
23. Published a paper in International Journal of Engineering & Technology, Volume 7, Issue no. 4.39, December 2018, titled **“Sugar Level Detection Using Thermal Images”.**
24. Published a paper in International Journal of Engineering & Technology, Volume 7, Issue no. 4.39, December 2018, titled **“Chronic Conjecture and Uncertainty Detection by Machine Learning”.**
25. Published a paper in Journal of Emerging Technologies and Innovative Research (JETIR), Volume-6 Issue-6, June 2019, titled **“Human Posture Detection System Using Real Time Self Calibrating Algorithm”.**
26. Published a paper in International Journal of Engineering and Advanced Technology (IJEAT), Volume-9 Issue-1, October 2019, titled **“Sugar Level Detection using Thermal Image of the Palm”.**
27. Published a paper in International Journal of Engineering and Advanced Technology (IJEAT), Volume-9 Issue-1, October 2019, titled **“Posture Detection and Alerting System Using Rtsc Algorithm”.**
28. Published a paper in International Journal of Engineering and Advanced Technology (IJEAT), Volume-9 Issue-1S, October 2019, titled **“Augmented Reality in Military Applications”.**
29. Published a paper in International Journal of Engineering and Advanced Technology (IJEAT), Volume-9 Issue-1S, October 2019, titled **“Military Database Security via Justapose Database Shuffling”.**
30. Published a paper in International Journal of Engineering and Advanced Technology (IJEAT), Volume-9 Issue-1S, October 2019, titled **“I-Voting on Cloud Framework”.**
31. Published a paper in International Journal of Engineering and Advanced Technology (IJEAT), Volume-9 Issue-1S, October 2019, titled **“Blockchain in India”.**
32. Published a paper in European Journal of Molecular & Clinical Medicine, Volume-7 Issue-2, November 2020, titled **“An Emotion Recognition Based Fitness Application for Fitness Blenders”.**
33. Published a paper in Journal of Ambient Intelligence and Humanized Computing, April 2021, titled **“Coordination schemes for resource oriented operation in wireless sensor actuator networks with queuing theory”.(SCI)**
34. Published a paper in Journal of Physics: Conference Series- Advances in Computer Science Engineering, Volume 1964 ,Issue-4, July 2021, titled **“CNN and Computational Configuration Mathematical Chromosomal Defect Analysis in Medical Images”.**
35. Published a paper in Journal of Physics: Conference Series- Advances in Computer Science Engineering, Volume 1964 ,Issue-4, July 2021, titled **“A Shared Blockchain Intelligent Public Protection Service Framework”.**
36. Published a paper in Journal of Physics: Conference Series- Advances in Computer Science Engineering, Volume 1964 ,Issue-4, July 2021, titled **“Security Protection of Information Utilizing Halfway Speculation”.**

**CONFERENCES ATTENDED:**

1. Presented paper in National conference - NCICT’07 held in Sri Sai ram Engineering college, titled “**Developing information system and map server for Mobile users using open-source software**”.
2. Presented paper in National conference - NCFACE’07 held in V.L.B Janaki Ammal Engineering college, titled “**Mobile GIS - Map server for low end Mobile users using open-source software**”.
3. Presented paper in National conference - NACIS ‘09 held in Madha Engineering College, titled “**An enhanced MAC system for voice and data traffic in wireless ad-hoc networks**”.
4. Presented paper in International conference - ICICT ‘09 held in TCS ,Sipcot ,titled “**Handoff in Fourth Generation Mobile Networks**”.
5. Presented paper in **ICISC’13 -**International Conference on Information, Systems and Computing held inSri Sai ram Engineering College on 4- 5,January, 2013,titled,”**Cyclic Group Protocol: An Improved Protocol for Multicast Video Transmission in MANET**”.
6. Presented paper in NCONNECT-2014, **-**National Conference on Novel Notions in Engineering Communication and Technologyheld inS.A.Engineering College on 7th March,2014, ,titled,**” Detecting New Identities of SYBIL Node in MANETs based on RSS”.**
7. Presented paper in ICECC-2014, **-** International Conference on Electrical Communication and Computing held inSri Sai ram Engineering College on 13th&14th March 2014, titled,**” Detecting New Identities of SYBIL Node in MANETs based on RSS detection”.**
8. Presented paper in NCRTIT’15, **-** National Conference on Recent Trends in Information Technology held inAdhiparasakthi Engineering College on 28th March2015, titled,**” Protecting Against Alliance attacks by Malicious nodes in MANETS using CBDS Technique with Originating Message”.**
9. Presented paper in National conference on computing technologies todays and beyond held inR.M.K college of engineering, 7th march **2016**, titled,**”Authentication using dynamic encryption with modified clued click points”.**
10. Presented paper in International conference on engineering technology and science held inMuthayammal engineering college, 18th& 19th march, **2016**,titled,**”Modernization of High Resolution Image from low Resolution Image using Scale invariant Approach along with depth Estimation method”.**
11. Presented paper in National Conference on Computing communication & information Technology held in T.J.S Engineering college, 7th April **2016**,titled,**”Privacy preserving personalized AD-Dissemination based on interest aggregation and piggy backing”.**
12. Presented paper in International Conference on Computational Science and Technology held inSri Sai Ram Engineering , 9th and 10th**March 2017**,titled,**”Tumor Detection in Prostate Organ using Canny Edge Detection Technique”.**
13. Presented paper in International Conference on Computational Science and Technology held inSri Sai Ram Engineering,9th and 10th**March 2017**,titled,**”TPBA: Trust Probability-Based Authentication for Vehicle-to-Vehicle Communication”.**
14. Presented paper in National conference on Recent Issues in Network Galaxy-RING held inR.M.D. Engineering college, **4th April 2017**, titled**,”Extended Prediction Based Authentication for Vehicle-to-Vehicle Communication”.**
15. Presented paper in National conference on Smart Innovations in Communications and Computing(NCSICC '18) held inSri Sai Ram Engineering, 27**th March 2018**,titled**,”SUGAR LEVEL DETECTION USING THERMAL IMAGES”.**
16. Presented paper in National conference on Smart Innovations in Communications and Computing(NCSICC '19) held inSri Sai Ram Engineering, 5**th March 2019**,titled**,”Detecting blood glucose level using thermal image of palm”.**
17. Presented paper in National conference on Smart Innovations in Communications and Computing(NCSICC '19) held inSri Sai Ram Engineering, 5**th March 2019**,titled**,”Posture detection and correction system”.**
18. Presented paper on the title **"Developer Connector Application Using Machine Learing Rake Algorithm”**, Second National Conference on Smart Innovations in Communications and Computing(NCSICC-2021)
19. Presented paper on the title **"Predicting The Rate Of Dementia For Alzheimer's Using Machine Learning”,** Second National Conference on Smart Innovations in Communications and Computing(NCSICC-2021).

**SEMINAR& WORKSHOP ATTENDED:**

1. Attended Two Days Workshop on **Grid Computing** held in Sathyabama University, Chennai on 19th and 20th march 2010.
2. Attended One Day Workshop on**"Art of Journal and Thesis Writing"** held in Sri Sai ram Engineering College on **19th**January 2012.
3. Attended seminar on “**Data Warehousing and BI & Cloud Computing**” held in Sri Sai ram Engineering College on 19**th** Dec 2012.
4. AttendedSeminar on **“Reals On networks”** held in Sri Sai ram Engineering College on **13th** September 2012.
5. Attended workshop on **“Science Writing / Journalism”** held in Sri Sai ram Engineering College from 13**th** Dec to 17**th** Dec 2012.
6. AttendedSeminar on **“Soft Computing “,** held in Sri Sai ram Engineering College on 5**th** Jan 2013**.**
7. AttendedWorkshop on **“Personality Development and Soft Skills “,** held in Sri Sai ram Engineering College on 13**th**& 14**th** Mar 2014.
8. AttendedWorkshop on **“Android Technology “,** held in Sri Sai ram Engineering College on 7**th** Feb 2014.
9. Attended a one day workshop on “**An Awareness program on Matlab**” at Sri Sai ram Engineering college(30th December 2014)
10. AttendedFDP on **“Mobile Application Development “,** held in Jeppiaar SRR Engineering College on 30**th**&31**st** Oct 2015.
11. AttendedSeminaron **“REST API and Application Development “,** held in Sri Sairam Engineering on 2**nd** Sep 2015.

**STAFF DEVELOPMENT PROGRAMS ATTEDNDED:**

1. Participated in Staff Development Program “**IT in Telemedicine and E-Health**” held in Sri Sai ram Engineering College in July 2007.
2. Participated in Staff Development Program “**Instructional Design & Delivery**” held in Sri Sai ram Engineering College in Jan 2008.
3. Participated in Staff Development Program “**Web Services and Application**” held in Sri Sai ram Engineering College in May 2008.
4. Participated in Staff Development Program on “**Recent Developments In Computing**” held in Sri Sai ram Engineering College on April 2010.
5. Participated in Faculty Development Program on “**MATLAB Applications in Electrical Engineering**” held in Sri Sai ram Engineering College on March 2012.
6. Participated in Faculty Development Program on **"Role of Academic Excellence in Developing World Class Higher Learning Institutions and Faculties**” held in Sri Sai Ram Engineering College on 12**th** Dec 2012.
7. Attended 5 days Faculty Development Program on **"NextGenTechStack**” held in Sri Sai Ram Engineering College From 08.04.2019 To 12.04.2019.
8. Attended 14 days AICTE Sponsored Faculty Development Programme On **“Data Science And Exploratory Data Analysis With R And Python” ,**From 07.06.2019 To 20.06.19 held in Sri Sai Ram Engineering College.
9. Attended two weeks AICTE Sponsored Faculty Development Programme On **“Artificial Intelligence & Advanced Machine Learning Data Science” ,**From 22.11.2019 To 05.12.19 held in S.A Engineering College,Chennai.
10. AttendedThree days online Faculty Development Programme On **“Disruptive Technologies” ,**From18.05.2020 To 20.05.20organized by IT department,Jeppiaar Engineering College, Chennai.
11. AttendedFive days online Faculty Development Programme On **“Introduction to Data Science” ,**From18.05.2020 To 22.05.20organized by Department of computer science and engineering,Guntur Engineering College, Karnataka.
12. AttendedSix days online Faculty Development Programme On **“Latest Trends and Challenges IT Industry” ,**From15.06.2020 To 20.06.20organized by Department of computer science and engineering,R.M.D Engineering College, Chennai.
13. AttendedSix days online Training Programme On **“Basics in Python Programming” ,**From15.06.2020 To 20.06.20organized by SA Techno Solutions, Chennai.
14. AttendedTwo days online Faculty Development Programme On **“Developing E-Content for Effective Teaching Learning Process” ,**From 01.07.2020 To 02.07.20organized by Department of computer science and engineering ,St Joseph’s College Of Engineering, Chennai.
15. Attended Six days online AICTE STTP On **“Internet of Things and its Applications” ,**From26.10.2020 to 31.10.2020organized by, SRM Valliammai Engineering College, Chennai.
16. Attended Five days online FDP On **“Recent Advancements in Machine Learning and Artificial Intelligence”,** From02.11.2020 to 06.11.2020 organized by, SRM University –AP ,AndhraPradesh.
17. Attended Five days online ATAL FDP On **“Data Sciences”,** From 16.11.2020 to 20.11.2020 organized by, Indian Institute of Information Technology, Design & Manufacturing Kancheepuram.
18. AttendedAICTE sponsored Six days online STTP On **“Incorporating the techniques of Block Chain & Artificial Intelligence to face the security and privacy challenges of IT infrastructure – Industry Approach & Implementation Data Sciences”,** From 23.11.2020 to 28.11.2020 organized by, KCG College of Technology, Chennai.
19. Attended Five days online ATAL FDP On **“Cyber Security”,** From 30.11.2020 to 04.11.2020 organized by, Sri Venkateswara College of Engineering,Chennai.
20. Attended Five days online ATAL FDP On **“Machine Learning”,** From 07.12.2020 to 11.12.2020 organized by,R.M.K COLLEGE OF ENGINEERING AND TECHNOLOGY,Chennai.
21. Attended Five days online ATAL FDP On **“Data Sciences”,** From 14.12.2020 to 18.12.2020 organized by, Indian Institute of Information Technology, Vadodara.
22. Attended 5 days Online Orientation Training Programme for Mentors from 5.7.21 to 9.7.21 under National Initiative for Technical Teachers Training, AICTE.
23. Completed Module 4: Instructional Planning and Delivery of National Initiative for Technical Teachers Training ,AICTE on Sep 2021.
24. Attended Five days online ATAL FDP On **“Deep Learning and Computer vision”,** From 03.01.2022 to 07.01.2022 organized by, Manipal University Jaipur.