


Name: Dr. G. PUTHILIIBAI	Photo 			
Designation:	PROFESSOR and captain IPR Cell			
Qualification:	M.Sc., M.Phil., B.Ed., PGDCA., Ph.D.,			
Area of specialization:	Environmental Engineering, Inorganic Chemistry			
Experience:	Industrial Experience		Teaching Experience	
	-		UG : 29 yrs PG : 4 yrs	
Number of workshops / FDP attended:	Number of Workshops		Number of FDPs	
Publications:	Conference		Journal	
	National	International	National	International
	14	15	03	67
Books / Book Chapters	05 / 20 (Total: 25)			
Patents:	National		International	
	48			
Professional Body Membership				
Staff Achievements	<ul style="list-style-type: none"> ➤ College Topper in Chemistry at UG level. ➤ University Rank at PG level. ➤ Won Championship for sports at UG level. 			

- Recipient of Prestigious Award: **“World Intellectual Property Organisation-WIPO Award 2023”** by Hon’ble Director General of World Intellectual Property Organisation (WIPO), Shri. Daren Tang with Shri. Som Parkash, Minister of Commerce, and Industry, MoS, GOI, Sh. Rajesh Kumar Singh, Secretary, DPIIT, Sh. Sanjeev Sanyal, Hon’ble Member of the Economic Advisory Council to the Prime Minister’s Office, Sh.V.Lakshmikumar, Advisor to the HCIM. Ministry of Commerce & Industry and Director General of Patents, Designs & Trademarks, Prof. (Dr.) Unnat P. Pandit. (There are four awards, among only one award is for individuals and the remaining three is for industry/organization).
- Recipient of the Prestigious Award: **“National Intellectual Property Awards 2023 - Top Indian Individual-Women: Patents”** by Shri. Piyush Goyal, Minister of Commerce and Industry, GOI at Vigyan Bhavan, New Delhi during **“National Intellectual Property Conclave & National IP Awards 2023”** on **“Nurturing Growth of IP driven Knowledge Economy”** on 13th October 2023.
- Recipient of Prestigious **“ISTE Best Women Engineering College faculty Award”**(National Level).
- Recipient of Prestigious International Level **“IEEE-MAS Outstanding Best Intellectual Property Award 2023”**..
- Recognized by India book of record for the achievement **“Maximum patents filed together in a single day by an individual”** for various innovative inventions. (**“India book of record” holder**).

- Successfully participated as “**Keynote speaker**” and “**Session Chair**” for the “**World Record**” event of 150 hours continuous presentation. (“**World Book of Record**” holder).
- Received “**Young Woman Scientist Award**” from Dr. Kalam Educational Trust.
- Received “**Award of Excellence**” from Raman & Ramanujam Awards 2020 of Rathinam College of Arts and Science, Coimbatore.
- Honored by AICTE-MoEs IIC as “**Innovation Ambassador(Advanced level)**”.
- Successfully completed NPTEL MOOC course(Patent drafting) as a **NATIONAL TOPPER**.
- Successfully completed 120+ **online courses**.
- Received “**Mentor of Appreciation**” for motivating students to participate actively in Ideathon.
- Received “**Mentor of Appreciation**” for initiating the evaluation process of the Toycathon event.
- **Mentor** of Smart India Hackathon (SIH)-All India level winner team (Grand Finale) conducted by AICTE-MoE, Govt of India.
- Received “**Mentor of Appreciation-Best Mentor**” in the Mentor’s Appreciation campaign on the Occasion of the Teacher’s day 2022 Celebrations, Organized by IIC Ministry of Education(MoE’s) Government of India, Gulzar Group of Institutions
- 70+ **Invited talk / Keynote speech / Expert Talk delivered & acted as a Panel member / Resource person**.
- Doing two **consultancy**.
- **Research Grant** received from Nobel Professional Foundation as a PI.
- Two granted Patents **commercialized**.
- **Proprietor** – Innotech Advanced Solutions.

- Acted as **Jury / Panel member / Chairperson /** Resource person.
- Received “**Mentor of Appreciation**” for evaluating projects in “Toycathon” conducted by AICTE-MoE, Govt of India.
- Received “**Best Paper Award**” for presenting a technical paper in the international conferences several times.
- Received “**Best Mentor Award**” for Skill rack performance by mentees from Skill Development Club of Sri Sairam Engineering College, Chennai.
- I am honoured to express my experience and pride in attending India’s 75th Republic Day celebration at Kartavya Path, New Delhi in the presence of the Hon’ble President of India, the Hon’ble Prime Minister of India and esteemed dignitaries as a Distinguished guest by the Ministry of Commerce and Industry & Indian Patent office, Govt of India.

I am thrilled that I have been invited to the stage to present the feedback and impression of the session, in front of all these high-profile dignitaries. My IP journey, my contributions included delivering advanced-level invited talks, conducting workshops, and organizing IP Clinics to raise awareness in turn converts successful student projects in to IP & Patent filing and extended awareness/invited/keynote talk delivered in diverse forums and various institutions, which is the need of the hour for the country’s technological development. I effectively highlighted the ongoing intellectual property (IP) initiatives at our college, outlining various activities. The response from the dignitaries, innovators and special invitees was positive and appreciative.

- Received “Mentor of Appreciation” for mentoring online MOOC courses conducted by AICTE-NPTEL

	<p>two times.</p> <ul style="list-style-type: none"> ➤ Received “Intellectual Property (IP) Award 2022” for having “Maximum number of Patent Grants” on the occasion of teacher’s day from IQAC Cell of Sri Sairam Engineering College, Chennai. ➤ Received “Patent Award 2021” for having “Maximum number of Patents and spreading awareness & guiding students and faculty to draft and file patents” on the occasion of teacher’s day from Sri Sairam Engineering College, Chennai. ➤ Number of Patents (Technology+Design) Filed / Published / Granted: 03/27/11. ➤ Produced 100% results in Engineering Chemistry-I, Engineering Chemistry-II, Environmental Science and Engineering & Environmental and Social Impact Assessment several times.
<p>Research Guidance :</p>	<ul style="list-style-type: none"> ➤ Recognized research supervisor (Ph.D and MS) by Anna University, Chennai, (Ref. No. 20.799.57). ➤ Recognized research supervisor by Bharathiyar University, Chennai, (Ref. No. CHE-GU3166). ➤ Recognized research supervisor by Bharath University, Chennai, (Ref. No. R13CH01). ➤ Recognized research supervisor by Vels University, Chennai, (Ref. No. Sl.no. 19). ➤ Recognized research supervisor by Hindustan University, Chennai. ➤ Research Guidance: No of PhD scholars guided/guiding: 02/03 (02-Regular & 01-Part time) No of MPhil scholars guided: 01 No of MTech students guided: 01 No of MCA students guided: 04 ➤ Received Research Grant from Nobel Professional Foundation approved by MSME and Ministry of Corporate Affairs, Government of India.

Roles and Responsibilities:

- **Resource person:** Delivered an Invited talk / Keynote speech / Expert talk in FDP / Seminar / Conference / Webinar / Workshop several times.
- **Convener / SPOC** – KAPILA, IIC – AICTE.
- **Captain:** IPR Cell of the college.
- Acted as **Session chair** for conferences several times.
- **Acted as Coordinator** - NIRF
- **Doctoral Committee member.**
- **Journal/Book reviewer.**
- Organized symposium / seminar / workshop / Conference several times.
- Having many sports and games certificates.
- Actively participated in Horticultural activity society and National Service Scheme (NSS).
- Acted as a **Jury** for the science exhibitions at different levels several times.
- **Team Lead** – Products and Patents (Innovation Cell)
- Journal / book **reviewer.**
- Acted as **Mentor and Judge** for Toycathon.
- R&D Cell member.
- Member- AQAR.
- Undergone **Post doctoral research** (PDF) at People Friendship University of Russia, Moscow, Russia.
- Acted as **Academic council board member**, Bharath University, Chennai.
- Acted as **Chemistry board chairman** for the Anna University Central Evaluation several times.
- Acted as a member of **Pre-valuation board meeting and Results pass board meeting**, Anna University, Chennai.
- Acted as **panel/expert committee member** in the interview for the recruitment of Ad hoc teaching staff recruitment conducted by HRD Ministry several times.
- **Certified internal auditor** of ISO:9001:2008 and ISO: 9001:2015 for Quality management system and

	<p>Audit training.</p> <ul style="list-style-type: none"> ➤ RO water quality parameters testing and maintenance of display board. ➤ ATAL AIM Mentor of change. ➤ Professional societies Membership: Life Member - ISTE Fellow Member - RSCS Member - IEEE & IFERB ➤ Member BOS & DAB ➤ Question paper/answer key was set both for Anna university theory/practical examinations. ➤ Consultant – SRI SAI FUSION TECNO WORKS - For designing and choice of materials for weld overlay for corrosion prevention. ➤ Mentor - NITTTR ➤ Member of ISO Committees ➤ Acted as event coordinator for cultural. ➤ IIC – AICTE; KAPILA Committee- IPR Expert Member, Sri Sai ram College of Engineering, Bangolre, ➤ Motivation meets presentations delivered several times. ➤ Acted as Team lead-Culinary club. ➤ Successfully completed the Technology Entrepreneurship Development program (TEDP) sponsored by the Department of Science and Technology (DST) conducted by IITM HTIC MedTech Incubator.
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Educational Qualification: *M.Sc., M.Phil., B.Ed., PGDCA., Ph.D., (PDF)*

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
UG	B.Sc.	Chemistry	1992	SBK College	Madurai Kamaraj	85%	I Class with

					University		distinction
PG	M.Sc.	Chemistry	1994	School of Chemistry	Madurai Kamaraj University	67%	I Class
	M.Phil.	Chemistry	1995	School of Chemistry	Madurai Kamaraj University	70%	I Class
Ph.D.	Ph.D	Chemistry	2009	Dept of Chemistry	Bharath University	Highly commended	

Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Sri Sai Ram Engineering College	Professor	01.02.2012	Till date	12	1	
	Asst Prof	01.08.2011	31.01.2012	-	5	31
	Senior Lecturer	13.06.2008	31.07.2011	3	1	18
Bharath University	Senior Lecturer	03.09.2001	11.06.2008	6	9	08
Thangavelu Engineering College	Lecturer	09.02.2001	03.09.2001	-	6	26
St. Paul's Junior College	Lecturer	12.09.1999	31.01.2001	1	4	19
Devangar College	Lecturer	01.07.1995	31.07.1999	4	1	-
				28	06	12

Workshops/Seminars attended:

FDP/STTP Attended:

Symposium Attended:

Conference Attended: 60

Completed / Ongoing Projects: 02

Patent: 48 (40 Technology +08 Design)

Journal Publications: Total No of publications : 70

National : 03

International : 67 (64 Published)

(03 Accepted)

Books / Book Chapters: 05 / 20 (Total: 25)

Awards : 18

Startup: 01

Webinar:

Resource Person: 72

Online Courses: 130

Workshops/Seminars attended:

1. **“International webinar Chemical science for sustainability(IWCS)”**
Organised by Gonzaga College of Arts and Science for Women, Kathampallam, Krishnagiri held on 19/10/2022.
2. Active participation in the **“Webinar-Awareness Meet on Materials Science with Ion Accelerator”** Organised by UGC- DAE Consortium for Scientific Research, Kalpakkam Node, India held on 19th July, 2022.
3. Participated in the event of **Global Entrepreneurship Summit** conducted by St. Francis Institute of Management and Research (PGDM) in association with Global Entrepreneur Grid (GEG) on 12th June, 2021.
4. **“Six days national workshop on Research methodology (QNVWRM-2021)”**
organized by Queens College of Arts and Science for Women, Punalkulam held during 19th to 24th, April 2021.
5. Webinar on **“Fresh water algal biodiversity of india: An overview”**
organized by Flora and Fauna Asia Facebook Group, Department of Botany, Seva Bharati Mahavidyalaya, Kapgari, Jhargram, West Bengal, on 26.11.2020.
6. Webinar on **“Ecological restoration of degraded habitats: An approach towards biodiversity conservation”** organized by Flora and Fauna Asia Facebook Group,

Department of Botany, Seva Bharati Mahavidyalaya, Kapgari, Jhargram, West Bengal, on 07.11.2020.

7. Webinar on **“Biodiversity in Coral Reef Ecosystem”** organized by Flora and Fauna Asia Facebook Group, Department of Botany, Seva Bharati Mahavidyalaya, Kapgari, Jhargram, West Bengal, on 31.10.2020.

8. International Virtual Conference on **Advances in Chemical Sciences - 2020** organised by Eswari Engineering College, Chennai held on 13th & 14th August 2020.

9. International Webinar Series on **“Basic Sciences-2020”**, organized by Sathyasayee Institute of Technology, Trichy on 19.08.2020.

10. Webinar on **“Patent prosecution strategies and challenges in India”** organized by The Frontiers legal and Turnip innovations on 25.07.2020.

11. Webinar on **“Introduction to IPR and Importance of Incubation Centre”** organized by Mahaveer Institute of Science and Technology on 08.06.2020.

12. Webinar on **“India's First Leadership Talk with Shri Shashi Shekhar (CEO-Prasar Bharti)”**, organized by MHRD's Innovation Cell on 11.07.2020.

13. National Webinar on **“Research and Innovations in Defence Sectors”**, organized by Sri Sairam Engineering College on 24.06.2020.

14. Webinar on **“India's First Leadership Talk with Mr. Shridhar Venkat CEO Akshaya Patra Foundation”**, organized by MHRD's Innovation Cell on 20.06.2020.

15. National Webinar on **“COVID 19: Yesterday, Today and Tomorrow”**, organized by R M K Engineering College on 14.06.2020.

16. Webinar on **“R&D Proposal Writing for Faculties”**, organized by Sri Sairam Engineering College on 12.06.2020.

17. Webinar on **“Reprogramming your mind”**, organized by Sri Venkateswaraa College of Technology on 11.06.2020.

18. International Webinar Series on **“Futuristic of Medicinal and Materials Chemistry (FMMC-2020)”**, organized by B. S. Abdur Rahman Crescent Institute of Science and Technology from 09.06.2020 to 13.06.2020.

19. Workshop on **“IPR filling process for Science and technology Faculty”**, organized by Sri Sairam Engineering College on 09.06.2020.

20. Webinar on **“Leadership Talk”**, organized by MHRD's Innovation Cell on 06.06.2020.

21. Workshop and Quiz on **“Principles of Spectroscopy”**, organized by K.S. RANGASAMY COLLEGE OF ARTS & SCIENCE (Autonomous) on 04.06.2020.

22. Workshop on **“Skycampus Digital Knowledge Series 2020 - Season 7: CELERATING INDUSTRY 4.0 - A POST COVID PARADIGM”**, organized by ICT Academy on 30.05.2020.

23. Hands-on Workshop on **“Patent Searching, Drafting and Filing”**, organized by Exilyze Intellectual Services, IEEE Computer Society and Computer Society of India of Panimalar Institute of Technology from 29.05.2020 to 02.06.2020.

24. Webinar on **“NAAC Accreditation Management system demo”**, organized by InPods Ed-tech on 27.05.2020.

25. Webinar on **“Modern Patent Research: Capitalizing on information in your organization”**, organized by IPWatchdog Inc on 26.05.2020.

26. Webinar on **“The unprecedented need for e-Education”**, organized by Ma Foi Educational Services Private Limited on 25.05.2020.

27. Webinar on **“Strengthening research capabilities remotely: Empowering Indian Research on COVID-19”**, organized by Alex Schlager, Verizon, Executive Director Product on 24.05.2020.

28. Webinar on **“Security in a 5G World”**, organized by Alex Schlager, Verizon, Executive Director Product on 24.05.2020.

29. Webinar on **“India's First Leadership Talk Series Session with Mr Mahesh Babu CEO Mahindra Electric Mobility Ltd”**, organized by MHRD's Innovation Cell on 23.05.2020.
30. Webinar on **“Interaction with Student Innovators and Entrepreneurs Emerged from Smart India Hackathon (SIH)”**, organized by IIC, MHRD's Innovation Cell on 22.05.2020.
31. Webinar on **“Frugal Innovations and Social Entrepreneurship”**, organized by IIC, MHRD's Innovation Cell on 21.05.2020.
32. Webinar on **“Future of AI”**, organized by IETE-Mumbai in association with PANTECH on 20.05.2020.
33. Webinar on **“Use of Market Data and Application of Marketing Research Tools and Methodology - Increasing Chances of Survivability of Innovation and Venture - Advance Level”**, organized by IIC, MHRD's Innovation Cell on 20.05.2020.
34. Webinar on **“Idea, Entrepreneurship Opportunities, Business Model and Business Plan”**, organized by IIC, MHRD's Innovation Cell on 19.05.2020.
35. Webinar on **“Leadership Talk”**, organized by MHRD's Innovation Cell on 16.05.2020.
36. Webinar on **“Innovation Risk Diagnostic â€” Product Innovation Rubric (PIR)”**, organized by IIC, MHRD's Innovation Cell on 13.05.2020.
37. Webinar on **“Understanding Role and Application of Marketing Research at Idea to Start up Stage - Foundation Level”**, organized by IIC, MHRD's Innovation Cell on 13.05.2020.
38. Webinar on **“Innovating Self- Screen and Identify right opportunities”**, organized by IIC, MHRD's Innovation Cell on 13.05.2020.
39. Webinar on **“Legal and Ethical Steps - Productive Entrepreneurship and Startup”**, organized by IIC, MHRD's Innovation Cell on 12.05.2020.

40. Webinar on **“Understanding Angel and Venture Capital Funding - What is there for Early Stage innovator & Entrepreneurs”**, organized by IIC, MHRD's Innovation Cell on 08.05.2020.
41. Workshop on **“Pizhaindri Ezhutha”** Conducted by Sri Krishna Institutions, Coimbatore on 07.05.2020.
42. Workshop on **“Measures of Central Tendency and Correlation”** Conducted by Sri Krishna Institutions, Coimbatore on 07.05.2020.
43. Webinar on **“Intellectual Property (IP) Management at Early Stage of Innovation and Start-ups”**, organized by IIC, MHRD's Innovation Cell on 07.05.2020.
44. Webinar on **“How to Identify Right Problem and Solution using the Double Diamond Approach in Design”**, organized by IIC, MHRD's Innovation Cell on 06.05.2020.
45. Webinar on **“Entrepreneurship, Business Idea and Business Model Canvas”**, organized by IIC, MHRD's Innovation Cell on 05.05.2020.
46. Webinar on **“Hangout with Successful Startup Founder”**, organized by IIC, MHRD's Innovation Cell on 04.05.2020.
47. Workshop on **“Elemental Arts: Evolution of Modern Periodic Table”** Conducted by Sri Krishna College of Engineering and Technology, Coimbatore between 01.05.2020 to 02.05.2020.
48. Webinar on **“Role of Network Enablers in driving I&E in HEIs - A Case of TiE, India”**, organized by IIC, MHRD's Innovation Cell on 01.05.2020.
49. Webinar on **“Hangout with Emerging Innovator & Entrepreneurs Supported through MIC & AICTE”**, organized by IIC, MHRD's Innovation Cell on 30.04.2020.
50. Webinar on **“Role and Importance of Pre-Incubators, Incubators and Accelerators in HEIs - Harnessing Innovation and Entrepreneurial Potential of**

Students and Faculties at Early Stage", organized by IIC, MHRD's Innovation Cell on 29.04.2020.

51. Webinar on **"National Innovation and Startup Policy for Students and Faculty 2019 - A Guiding Framework for HEIs for Implementation"**, organized by IIC, MHRD's Innovation Cell on 28.04.2020.

52. Webinar on **"IP Strategy and Valuation' and 'Patent Protection"** Organized by Lawctopus on 26.04.2020.

53. One day Workshop & Quiz on **"Intellectual Property"** Organized by Guru Nanak Centre for Research, Guru Nanak College, Chennai on 26.04.2020.

54. One day Workshop on **"Intellectual Property Rights"** Organized by Eventbrite on 10.04.2020.

55. One day Workshop & Quiz on **"Chemistry in Everyday Life"** Organized by PG and Research Department of Chemistry, R.V.Government Arts College, Chengalpattu, on 06.03.2020.

56. One Day Workshop on **"Intellectual Property Rights and Innovation"** Organized by Sri Sairam Engineering College, Chennai-44 on 20.07.2019.

57. One Day Awareness Workshop on **"Intellectual Property Rights 2019 (IPR 2019)"** on the occasion of World Intellectual Property (IP) day organized by CIPR, Anna University, Chennai-25 on 26.04.2019.

58. National seminar on **"Recent Advances in Nanoscience and Technology"** conducted by Anna University, Chennai-25, from 06/10/2016 to 07/10/2016.

59. Industry-Institute Interaction Event on **"Environment Management in Industrial Sectors-Status and Needs"** held from 24/07/2014 to 25/07/2014.

60. ISTE Sponsored national seminar on **"R&D Issues and Challenges"** conducted by Adhiparasakthi Engineering College, Melmaruvathur, Chennai, from 21/11/2013 to 22/11/2013.

61. CSIR sponsored a national seminar on **“Recent Trends in Laser Spectroscopy and its Applications” (RTILSA-13)** conducted by Sri Sairam Engineering College, Chennai-44 on 17/10/2013.

62. AICTE sponsored a national seminar on **“Current Trends and Future role of Renewable energy”** conducted by Sri Sairam Engineering College from 08/10/2013 to 09/10/2013.

63. Workshop on **“Art of Journal and Thesis Writing”** conducted by Sri Sairam Engineering College, Chennai-44 on 19/01/2012.

64. AICTE sponsored seminar on **“Environmental Issues and Sustainable Development”** conducted by Sri Sairam Engineering college, Chennai-44 from 11/12/2013 to 12/12/2013.

65. National conference on **“Current Trends in Biomaterials” (sponsored by Department of Biotechnology, New Delhi)**, conducted by Sri Venkateshwara Engineering college, Sriperumbudur, on 18/07/2008.

66. Seminar on **“Awareness programme on nanoscience and technology”** organized by Center for Nanoscience and Technology & Crystal Growth Centre at Anna University, Chennai-25 from 19/09/2007 to 20/09/2007.

67. Workshop on **“Ontology Engineering and Cheminformatics-2006”** conducted by Pondicherry Engineering College, Pondicherry from 15/12/2006 to 16/12/2006.

FDP/STTP Attended:

1. Participated in **“International Faculty Development Program (FDP-2.0) on Recent Research in Materials Physics and Nano Devices”** Organised by Rajapalayam Rajus’ College, Rajapalayam, held on 21/11/2022 to 25/11/2022.

2. Successfully participated in the **“IP Awareness/Training program under National Intellectual Property Awareness Mission(NIPAM)”** organized by Intellectual property office, India on September 19,2022.

3. One Week FDP on **“Goal Oriented Financial Planning and Investment Strategies for Individuals”** Organised by Bhagwan Parshuram Institute of Technology, New Delhi held from 22/08/2022 to 26/08/2022.

4. Attended NAAC Sponsored - Two Days State Level Seminar on **“National Educational Policy: Quality Enhancement and Reforms in Higher Education Institutions (HEIs)”** organized by Internal Quality Assurance Cell, Sri Ramakrishna Engineering College, Coimbatore, Tamilnadu, India, during 04 & 05 August, 2022.

5. Participated and Successfully completed the **“5-days Face-to-Face UHV-II FDP** Organized by All India Council for Technical Education(AICTE) at Sri Sai ram Engineering College from 26/07/2022 to 30/07/2022.

6. Faculty Development Programme on **“Artificial Intelligence in HealthCare”** organized by Sri Sairam Engineering College, Chennai-44 in association with ISTE from 21.02.2022 to 25.02.2022.

7. Participated in the **“Five days faculty development program on Artificial Intelligence in Healthcare ”** Organised by the development of Information Technology (in association with ISTE) held from 21/02/2022 to 25/02/2022.

8. Participated in **“Regional Meet- Institution’s Innovation Council MoE’s Innovation Cell ”**Organised by Sathyabama Institute of Science and Technology Chennai held on 21/07/2022.

9. AICTE Training And Learning (ATAL) Academy Faculty Development Programme on **“Design Thinking”** organized by Bharati Vidyapeeth College of Engineering, from 21.06.2021 to 25.06.2021.

10. AICTE Training And Learning (ATAL) Academy Faculty Development Programme on **“Design Thinking to nurture Creativity and Innovation leading to Entrepreneurship”** organized by Dr D Y Patil Institute of Management & Research, from 14.06.2021 to 18.06.2021.

11. Attended Five days FDP on Inculcating Universal human values in Technical Education online program organised by AICTE from 19.04.2021 to 23.04.2021.

12. AICTE Training And Learning (ATAL) Academy Faculty Development Programme on **“Innovation Management”** organized by Shiv Nadar University, from 10.10.2020 to 14.10.2020.

13. AICTE Training And Learning (ATAL) Academy Faculty Development Programme on “**Sensors Technology**” organized by Tripura University, from 21.09.2020 to 25.09.2020.

14. Faculty Development Programme on “**Advancements in Applied Chemistry (AAC 2020)**” organized by St. Joseph's College of Engineering, Chennai from 06.07.2020 to 08.07.2020.

15. Faculty Development Programme on “**Recent Innovations in Electrical, Electronics, Instrumentation, Automation and Teaching Pedagogy**” organized by Sri Sairam Engineering College, Chennai-44 from 18.05.2020 to 30.05.2020.

16. Faculty Development programme on “**Insights into Quality Research and Innovation**” organized by R&D Cell and IIC of Vivekanandha College of Engineering for Women from 13.05.2020 to 20.05.2020.

17. Faculty Development Programme on “**Renewable energy systems**” organized by Sri Sairam Engineering College, Chennai-44 from 22.07.2019 to 26.07.2019.

18. Faculty Development Programme on “**Outcome Based Education**” organized by Internal Quality Assurance Cell of (IQAC), Sri Sairam Engineering College, Chennai-44 on 05.04.2019.

19. Faculty Development Programme on “**Engineering Teaching Pedagogy and Effective Learning Process**” held at Sri Sairam Engineering College, Chennai-44 from 03/12/2018 to 07/12/2018.

20. AICTE sponsored the Staff Development Programme on “**Fundamentals of Nano science and Technology**”, conducted by Anna University, Chennai-25 from 07/12/2011 to 21/12/2011.

21. AICTE sponsored the Staff Development Programme on “**Instructional Design & Delivery**”, conducted by Sri Sairam Engineering College, Chennai-44 on 11/02/2009.

22. AICTE sponsored Faculty Development Programme on “**Impact of Globalisation and Liberalisation in the cultural values of BPO/ITES Employee**”, conducted by Sri Sairam Institute of Management Studies, Chennai from 04/12/2008 to 10/12/2008.

23. Short Term Training Programme on “**Recent Trends in Analytical Instrumentation**” organized by the Department of Chemistry, SRM University, Chennai from 01/04/05 and 02/04/05.

24. Faculty Development Programme, on “**Principles of Environmental science and Engineering**” conducted by Madras Institute of Technology (MIT), Chrompet, Chennai, from 06/12/04 to 10/12/04.

Symposium Attended:

Conference Attended:

INTERNATIONAL

1. “Synthesis, Characterisation and Multitargeted biological applications of Novel Ruthenium(II) isatin based Schiff base complexes”, **International Conference on Innovative Green Materials For Sustainable Engineering(IGMSE-2023)** Organized by Department of Chemistry, SIMATS Engineering, Saveetha University, Chennai between 27/02/2023 to 28/02/2023.

2. “Cytotoxic evaluation of Ru(III) complexes; their DNA/BSA binding by in vitro and in silico approaches”, **International Conference on Innovative Green Materials For Sustainable Engineering(IGMSE-2023)** Organized by Department of Chemistry, SIMATS Engineering, Saveetha University, Chennai between 27/02/2023 to 28/02/2023.

3. “Amber light-control cum management system,” **International Conference of new ideas in Technology and innovations** Organized by Institution’s innovations council, Cauvery college for women, Trichy-18 from 30/1/2023 to 31/01/2023.

4. “Estimation of surface roughness using a Techniques” in the **International Virtual Conference on Advance in Digital Transformation, Software Technologies Intelligent (IoT) system** Organised by Bannari Amman Institute of Technology, Sathyamangalam on 20th and 21st May 2022.

5. “Application of Polymers in MFC for Enhanced Production of Electricity” in the **International Virtual Conference on Advance in**

Digital Transformation, Software Technologies Intelligent (IoT) system Organised by Bannari Amman Institute of Technology, Sathyamangalam on 20th and 21st May 2022.

6. "An Intelligent Approach for Electricity Generation: Microbial Fuel Cell," **IEEE International Conference on Power, Energy, Control and Transmission Systems (ICPECTS-2022)** organised by Sri Sairam Engineering College, Chennai, India between 10/03/2022 - 11/03/2022.

7. "Computational System Based on Machine Learning with Novel Hybrid Security Technique to Classify Crime Offenses," **IEEE International Conference on Power, Energy, Control and Transmission Systems (ICPECTS-2022)** organised by Sri Sairam Engineering College, Chennai, India between 10/03/2022 - 11/03/2022.

8. "Securing IIoT sensors communication using blockchain technology," **IEEE International Conference on Power, Energy, Control and Transmission Systems (ICPECTS-2022)** organised by Sri Sairam Engineering College, Chennai, India between 10/03/2022 - 11/03/2022.

9. "Movement of Cycle Using Electro-Magnetism Along with Free Energy Generation," **IEEE International Conference on Power, Energy, Control and Transmission Systems (ICPECTS-2022)** organised by Sri Sairam Engineering College, Chennai, India between 10/03/2022 - 11/03/2022.

10. "An Intelligent Waste Disposal System for Hygienic Society," **1st International Conference on Computational Science and Technology (ICCST-2022)**, Sri Sairam Engineering College, Chennai, India between 09/11/2022 - 10/11/2022.

11. "Autonomous Traffic System Management based on YOLOR," **1st International Conference on Computational Science and Technology (ICCST-2022)**, Sri Sairam Engineering College, Chennai, India between 09/11/2022 - 10/11/2022.

12. “An Understanding in Etiopathogenesis of Vitiligo based on Melanin Synthesis- A single case study report”, International conference organized by ESN Publications, 2022.

13. “Studies on Variable Biological Applications of Schiff Base Complexes”, **Third International Conference on Materials, Computing and Communication Technologies (ICAMCCT 2021)** organised by Annai Vailankanni College of Engineering, Kanyakumari District on 20.06.2022.

14. “Enhanced Intelligent Smart Home Control and Improved Security System”, in the journal **Third International Conference on Materials, Computing and Communication Technologies (ICAMCCT 2021)** organised by Annai Vailankanni College of Engineering, Kanyakumari District on 20.06.2022.

15. “Influence of IOT in Microbial Fuel Cell for Mass Production of Electricity”, in the journal **Third International Conference on Materials, Computing and Communication Technologies (ICAMCCT 2021)** organised by Annai Vailankanni College of Engineering, Kanyakumari District on 20.06.2022.

16. “Investigation of Surface Roughness in Machine using Artificial Intelligence Techniques”, **IEEE International Conference on Communication, Computing Internet of Things (IC3IoT2022)** conducted by Sri Sairam Engineering College, Chennai-44, from 10/03/2022 to 11/03/2022.

17. “Maternal health remote monitoring system” in the **International Conference on Engineering, Medicine, Management, Arts and Science ‘EMMA 2021’** Organized by Chendur Research Foundation during December 24, 2021 and December 26, 2021.

18. “Implementing Augmented reality and Virtual reality by using Face detection, Recognition and Motion Tracking” in the **International Conference on Engineering, Medicine, Management, Arts and Science ‘EMMA 2021’** Organized by Chendur Research Foundation during December 24, 2021 and December 26, 2021.

19. “Application controlled home automation through Raspberry Pi” in the **International Conference on Engineering, Medicine, Management,**

Arts and Science 'EMMA 2021, Organized by Chendur Research Foundation during December 24, 2021 and December 26, 2021.

20. "A review on removal of pollutant from textile dye wastewater by oxidation – coagulation process" in the **Second International Conference on Emerging Trends in Materials, Computing and Communication Technologies 'ICETMCCT 2021'** Organized by Annai Vailankanni College of Engineering, Kanyakumari Dist., during December 9, 2021 and December 10, 2021.

21. "An Evaluation on antiviral and immunomodulatory effect of withania somnifera against coronavirus- sars covid – 2", **International Conference on Multidisciplinary Research ICMR 2021** organized by ESN publications on 26-27.11.21.

22. "Green synthesis of europium doped titanium dioxide nanoparticle and its photocatalytic application, **INTERNATIONAL CONFERENCE ON MODERN FUNCTIONAL MATERIALS (ICMFM – 2021)** organised by Sri Sairam Engineering College, Chennai, between 24.06.2021-25.06.2021.

23. "Green synthesis of europium doped titanium dioxide nanoparticle and its photocatalytic application, **INTERNATIONAL CONFERENCE ON MODERN FUNCTIONAL MATERIALS (ICMFM – 2021)** organised by Sri Sairam Engineering College, Chennai, between 24.06.2021-25.06.2021.

24. "Power production monitoring system using IoT" in **AICTE Sponsored International conference on Advances in Mechanical Engineering (ICAME'21)** Organized by Department of Mechanical Engineering, Sri Sairam Engineering College, Chennai-44, held during 27-28 January, 2021.

25. "Synthesis, thermal and mechanical properties of fuller's earth reinforced polymer matrix composites" in **AICTE Sponsored International conference on Advances in Mechanical Engineering (ICAME'21)** Organized by Department of Mechanical Engineering, Sri Sairam Engineering College, Chennai-44, held during 27-28 January, 2021.

26. "Power Production by Microbial Fuel Cell having conductive polymer electrode and Bio Catalysts", **IEEE International Conference on**

Power, Energy, Control and Transmission Systems (ICCST2020) conducted by Sri Sairam Engineering College, Chennai-44, from 10/12/2020 to 11/12/2020.

27. "Piezoelectric Pavement", **IEEE International Conference on Power, Energy, Control and Transmission Systems (ICCST2020)** conducted by Sri Sairam Engineering College, Chennai-44, from 10/12/2020 to 11/12/2020.

28. "Urinal Microbial Fuel Cell: Electricity Generation - An Eco friendly Approach, **IEEE International Conference on Power, Energy, Control and Transmission Systems (ICCST2020)** conducted by Sri Sairam Engineering College, Chennai-44, from 10/12/2020 to 11/12/2020.

29. "Power Production from Wastewater Using Microbial Fuel Cell" in the **6th International conference on Chemical and Environmental Research (ICCER-2020)**, organized by the PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli - 620 020, on 12.11.2020.

30. "Synthesis, spectral, antibacterial, dna binding and anti cancer studies of copper (II) complex" in the **6th International conference on Chemical and Environmental Research (ICCER-2020)**, organized by the PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli - 620 020, on 12.11.2020.

31. "Pee-power: an electricity-generating sanitation solution for decentralized areas." in the **6th International conference on Chemical and Environmental Research (ICCER-2020)**, organized by the PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli - 620 020, on 12.11.2020.

32. "IoT based soil monitoring system in agriculture", **2nd International Conference on Computational Science and Technology (ICCST2020)** conducted by Sri Sairam Engineering College, Chennai-44, from 05/03/2020 to 06/03/2020.

33. "IoT in agriculture-Irrigation system", **2nd International Conference on Computational Science and Technology (ICCST2020)** conducted by Sri Sairam Engineering College, Chennai-44, from 05/03/2020 to 06/03/2020.

34. "Implementation of Ammonia Gas Leakage Detection & Monitoring System using Internet of Things, **IEEE Third International conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud)(I-SMAC) 2019** organized by SCAD Institute of Technology at Palladam, India between 12.12.2019-14.12.2019.

35. "Synthesis, DNA Binding, Anticancer and Cytotoxic Evaluation of Novel Isatin Based Ru(II) Complex", **7th International Conference on Contemporary Engineering and Technology 2019, organized by Organization of Science & Innovative Engineering and Technology (OSIET)**, Chennai, from 09/03/2019 to 10/03/2019.

36. "Synthesis, DNA binding, Anticancer and Cytotoxic evaluation of Novel Ruthenium(II) Isatin based Schiff base complex", **International Conference from Mechanical, Materials and Manufacturing Systems (ICMMMS '16)** conducted by Sri Sairam Engineering College, Chennai-44, from 24/02/2016 to 25/02/2016.

37. "A facile combustion synthesis and opto-magnetic characterizations of magnetically reusable spinel $\text{Ni}_x\text{Zn}_{1-x}\text{Fe}_2\text{O}_4$ ($x = 0.0$ to 1.0) nanophotocatalysts", **International conference on Recent Trends in Analytical Chemistry (ICORTAC-2015)** organized by the Department of Analytical Chemistry, University of Madras, Chennai-25, from 28/12/2015 to 29/12/2015. (Received best paper award)

38. "Synthesis, DNA Binding, Anticancer and Cytotoxic Evaluation of novel mononuclear Ru(II) complex", **Indo - Australian Conference on Biomaterials, Tissue Engineering, Drug Delivery System and Regenerative Medicine (BiTERM-2015)** organized by the Department of Chemistry, Anna University, Chennai-25, on 05/02/2015.

39. **Medicinal Chemistry Conference (MEDCHEM-2013) - Advances in Anticancer Drug Discovery and development** organized by the

Department of Chemistry, Indian Institute of Technology Madras, Chennai-36 from 25/10/2013 to 26/10/2013.

40. “Analysis and Identification of Natural Copper Ore”, **International Symposium for Research Scholars (ISRS 2008) on Metallurgy, Material Science and Engineering**, conducted by Indian Institute of Technology Madras, Chennai, from 10/12/2008 to 12/12/2008.

41. “Synthesis, Structure and Catalytically Active Ru(II) Complex Formation of Schiff Base 2-Bromo-4-Chloro-6-(4-Fluoro phenyl imino methyl) Phenol”, International conference on **Functional Materials-Controlled Synthesis, Discrete molecular processes and Engineering (FM 2008)**, organized by the Department of Chemistry, Indian Institute of Technology Madras, Chennai, from 27/11/2008 to 29/11/2008.

42. “Novel Ruthenium(III) complexes: Synthesis, Structure and DNA Binding Studies”, International Symposium on **Recent Trends in Macromolecular Structure and Function**, organized by Department of Chemistry, University of Madras, Chennai, from 07/01/2008 to 11/01/2008.

43. “Synthesis and Characterization of Metal complexes”, **International Conference on Biophysical Organic and Inorganic Chemistry (ICBOIC)**, organized by the Department of Chemistry, Bharath University, Chennai, from 26/08/2007 to 30/08/2007.

44. “Synthesis, Spectroscopic, Magnetic and Redox behavior of Copper(II) and Ruthenium (III) complexes”, **International Conference on Biophysical Organic and Inorganic Chemistry (ICBOIC)**, organized by the Department of Chemistry, Bharath University, Chennai, from 26/08/2007 to 30/08/2007.

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45. “IoT Based Electricity Generation Monitoring System” in **National e-Conference on Innovations in Civil Engineering through Sustainable Technologies (NICEST-2021)** Organized by Department of Civil Engineering, Mahatma

Gandhi Institute of Technology (MGIT), Gandipet, Hyderabad, held during 26-27 March, 2021.

46. “Unmodified Fuller’s Earth Reinforced Elastomeric Composites” in **National e-Conference on Innovations in Civil Engineering through Sustainable Technologies (NICEST-2021)** Organized by Department of Civil Engineering, Mahatma Gandhi Institute of Technology (MGIT), Gandipet, Hyderabad, held during 26-27 March, 2021.

47. “Synthesis, spectral, electrochemical and DNA binding properties of Ruthenium (III) complexes of Schiff bases containing N,O Donor atoms”, **National conference on Chemistry & Materials (NCCM-2019)**, organized by Department of Chemistry, Saveetha Engineering College, Chennai, on 22/03/2019.

48. “Synthesis, Spectral, Anti bacterial and DNA binding studies of copper(II) complex”, **National conference on Chemistry & Materials (NCCM-2019)**, organized by Department of Chemistry, Saveetha Engineering College, Chennai, on 22/03/2019.

49. “Synthesis and DNA Binding studies of Ru(II) Schiff base complex with CO and AsPh₃ as CO-ligands”, **National conference on Emerging Trends in Communicative English & Applied Sciences**, conducted by Bharath University, Chennai, on 14/03/2008.

50. “Ligand Influence on the Redox Properties of Copper (II) complexes with Phenolic ligands”, **National conference on Emerging Trends in Communicative English & Applied Sciences**, conducted by Bharath University, Chennai, on 14/03/2008.

51. “Synthesis, Spectroscopic, Magnetic and Redox behaviour of Copper(II), Cobalt(II), Nickel(II) and Ruthenium(III) bidentate Schiff base complexes of N-,O- donors”, 12th Biennial Symposium on **Modern Trends In Inorganic Chemistry (MTIC-XII)**, organized by the Department of Chemistry, Indian Institute of Technology Madras, Chennai, from 06/12/2007 to 08/12/2007.

52. “Bio-remediation—Nature’s Cleaner Technology”, **National conference on Recent trends in Science and Communicative English**, conducted by Bharath University, on 28/02/2007.

53. “Cheminformatics- Past, Present and Future”, **National Conference on Recent Trends in Advanced Computing (NCRTAC-07)**, conducted by Bharath University, Chennai, on 15/02/2007.

54. “Synthesis and Characterization of New Ruthenium Complexes of Bidentate Schiff Base Ligands”, **Silver Jubilee Conference organized by Indian Council of Chemists**, conducted by Birla College, Kalyan, from 27/10/2006 to 29/10/2006.

55. “Niobium Chloride (NbCl_5): A Highly Efficient Catalyst for Solvent-Free Cyanosilylation of Aldehydes”, **Silver Jubilee Conference organized by Indian Council of Chemists**, conducted by Birla College, Kalyan from 27/10/2005 to 29/10/2006.

56. “Mild and Efficient Silylcyanation of Ketones Catalysed by KF”, **National seminar on novel products and processes for Chemical Engineering and Biotechnology**, conducted by St. Joseph’s College of Engineering, Chennai, from 21/03/2005 to 22/03/2005.

57. “Advanced Tertiary Treatment for Domestic Sewage (A Case study in Madras Fertilizers Limited)”, **National seminar on novel products and processes for Chemical Engineering and Biotechnology**, conducted by St. Joseph’s college of Engineering, Chennai, from 21/03/2005 to 22/03/2005.

Completed / Ongoing Projects:

Patent:

1. NOVEL MIXED LIGAND RUTHENIUM (III) COMPLEXES, ITS PRODUCTION METHOD AND USE IN CANCER THERAPY (Granted).

Application Number: 5122/CHE/2015	Date of Filing: 25/09/2015
Patent Grant Number: 343002	Date of Grant: 31/07/2020

2. RUTHENIUM-HYDRAZONE COMPLEX CATALYSTS : PRECURSORS, PROCESS FOR THE PREPARATION AND THEIR USE (Granted)

Application Number: 201741022096	Date of Filing: 23/06/2017
Patent Grant Number: 377787	Date of Grant: 24/09/2021

3. SYNTHESIS ROUTE FOR THE PREPARATION OF RECYCLABLE RUTHENIUM (II) CARBONYL SCHIFF BASE CATALYSTS WITH TRIPHENYL PHOSPHINE /ARSINE (Granted).

Application Number: 201741022097	Date of Filing: 23/06/2017
Patent Grant Number: 387433	Date of Grant: 26/01/2022

4. Method of preparation of novel ruthenium(II) Isatin based Schiff base complex and its use in anti-cancer therapy (Granted).

Application Number: 201941019466	Date of Filing: 16/05/2019
Patent Grant Number: 413804	Date of Grant: 07/12/2022

5. AMMONIA GAS LEAKAGE MONITORING SYSTEM USING IOT (Published).

Application Number: 201941038241	Date of Filing: 23/09/2019
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Journal Number:50/2019	Date of Publication: 13/12/2019
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6. PIEZO-ELECTRIC ENERGY HARVESTING IN PAVEMENTS (Published).

Application Number: 201941045061	Date of Filing: 06/11/2019
Journal Number: 50/2019	Date of Publication:13/12/2019

7. IOT BASED AUTOMATED TOILBOTS (Published).

Application Number: 13/12/2019	Date of Filing: 19/10/2020
Journal Number: 44/2020	Date of Publication: 30/10/2020

8. THE SMART SYSTEM FOR PRE-DETECTION OF CARDIAC ISSUES (Granted).

Application Number: 202041047200	Date of Filing: 29/10/2020
Patent Grant Number: 540873	Date of Grant: 05/06/2024

9. CARI TEETH-HANDHELD DEVICE FOR TOOTH CAVITY DETECTION (Published).

Application Number: 202041047231	Date of Filing: 29/10/2020
Journal Number: 45/2020	Date of Publication: 06/11/2020

10. METAL MATRIX ELECTRIC KETTLE (Granted).

Application Number: 336258-001	Date of Filing: 14/12/2020
Journal Number:	Date of Publication:

11. IOT BASED PROCESS CONTROL FOR METALLIC COATING ON METALLIC/NON-METALLIC SURFACE (Filed).

Application Number: 202041054208	Date of Filing: 14/12/2020
Journal Number: -	Date of Publication: -

12. DESIGN AND CONFIGURATION OF MULTIPURPOSE ALLOY CONTAINER. (Granted)

Application Number: 336259-001	Date of Filing: 14/12/2020
Journal Number:	Date of Publication:

13. POWER PRODUCTION FROM WASTEWATER USING MICROBIAL FUEL CELL HAVING CONDUCTIVE POLYMER ELECTRODES (Published).

Application Number: 202041054209	Date of Filing: 14/12/2020
Journal Number: 51/2020	Date of Publication: 18/12/2020

14. CERAMIC MATRIX LIGHTWEIGHT VASE (Granted)

Application Number: 336261	Date of Filing: 14/12/2020
Journal Number:	Date of Publication:

15. VOICE OPERATED INTELLIGENT WHEELCHAIR (Published).

Application Number: 202041054210	Date of Filing: 14/12/2020
Journal Number: 52/2020	Date of Publication: 25/12/2020

16. BIODEGRADABLE LIGHTWEIGHT UTILITY CONTAINER (Granted).

Application Number: 336256-001	Date of Filing: 14/12/2020
Journal Number:	Date of Publication:

17. URINAL MICROBIAL FUEL CELL: ELECTRICITY GENERATION AN ECO FRIENDLY APPROACH (Granted).

Application Number:202041054215	Date of Filing: 14/12/2020
Patent Grant Number: 453650	Date of Grant: 22/09/2023

18. CERAMIC HANDLE HOLDER (Granted).

Application Number: 336255-001	Date of Filing: 14/12/2020
Journal Number:	Date of Publication:

19. PREDICTING THE HARMFUL LEVEL OF CARBON EMISSION IN VEHICLES USING MACHINE LEARNING WITH SENSOR SYSTEM (Published).

Application Number: 202041054216	Date of Filing:14/12/2020
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Journal Number: 30/2021	Date of Publication: 23/07/2021
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20. COMPUTATION AND GOVERNANCE OF DRIVER'S PERFORMANCE USING MACHINE LEARNING (Published).

Application Number: 202041056851	Date of Filing: 29/12/2020
Journal Number: 02/2021	Date of Publication: 08/01/2021

21. MULTIPURPOSE CONTAINER. (Granted).

Application Number: 336260-001	Date of Filing: 14/12/2020
Journal Number:	Date of Publication:

22. CHALLENGE OPERATING SYSTEM (Published).

Application Number: 202141002167	Date of Filing: 18/01/2021
Journal Number: 04/2021	Date of Publication: 22/01/2021

23. DESIGN AND FABRICATION OF ORNAMENTAL CERAMIC SAUCER (Granted).

Application Number: 336257-001	Date of Filing: 14/12/2020
Journal Number:	Date of Publication:

24. FABRICATION OF AXIAL FAN BLADE WITH GLASS FIBER AND HUMAN HAIR COMPOSITE
(Published).

Application Number: 202141016969	Date of Filing: 12/04/2021
Journal Number: 17/2021	Date of Publication: 23/04/2021

25. CRATUS-THE BAG OF FUTURE (Published).

Application Number: 202141020488	Date of Filing: 05/05/2021
Journal Number:24/2021	Date of Publication: 11/06/2021

26. CAUSTIC SODA TREATED BANANA FIBERS HYBRID COMPOSITE (Published).

Application Number: 202141041242	Date of Filing: 14/09/2021
Journal Number: 44/2021	Date of Publication: 29/10/2021

27. ACOUSTIC FIRE EXTINGUISHING ROBOT (Published).

Application Number:202141054083	Date of Filing:24/11/2021
Journal Number:50/2021	Date of Publication:10/12/2021

28. EXPERIMENTAL INVESTIGATION ON HYBRID DOUBLE SLOPE SOLAR STILL INTEGRATED WITH PV/T SYSTEM (Published).

Application Number:202141054486:	Date of Filing:25/11/2021
Journal Number:01/2022	Date of Publication:07/01/2022

29. INFLUENCE OF IOT IN MICROBIAL FUEL CELL FOR MASS PRODUCTION OF ELECTRICITY (Published).

Application Number: 202141058303	Date of Filing: 15/12/2021
Journal Number: 53/2021	Date of Publication:31/12/2021

30. EXPERIMENTAL INVESTIGATION ON HYBRID SQUARE PYRAMID SOLAR STILL INTEGRATED WITH PV/T SYSTEM (Published).

Application Number: 202141054492	Date of Filing: 25/11/2021
Journal Number: 50/2021	Date of Publication: 10/12/2021

31. DESIGN AND FABRICATION OF LIGHTWEIGHT ECO FRIENDLY VASE (Filed).

Application Number:	Date of Filing:
Journal Number: -	Date of Publication: -

32. AN INTELLIGENT SPRINKLER SYSTEM FOR ENHANCED GROWTH OF CROPS(Granted).

Application Number: 202241052618	Date of Filing: 15/09/2022
Patent Grant Number: 521046	Date of Grant: 06/03/2024

33. SMART METER FOR MONITORING AND PREDICTING HOUSEHOLD ELECTRICITY CONSUMPTION
(Filed).

Application Number: 202241028199	Date of Filing: 17/05/2022
Journal Number: -	Date of Publication: -

34. AN INTELLIGENT AND HYGIENIC WASTE DISPOSAL SYSTEM (Filed).

Application Number: 202241045570	Date of Filing: 10/08/2022
Journal Number: 07/2024	Date of Publication: 16/02/2024

35. AN AUTONOMOUS INTELLIGENT LIGHTWEIGHT ROBOT FOR HEALTH CARE MONITORING
(Published).

Application Number: 202241068688	Date of Filing: 29/11/2022
Journal Number: 49/2022	Date of Publication: 09/12/2022

**36. METHOD OF OPTIMIZING POST-ACUTE CARE IN BREAST CANCER SURVIVORS: A
REHABILITATION PERSPECTIVE** (Published).

Application Number: 202241068687	Date of Filing: 29/11/2022
Journal Number: 49/2022	Date of Publication: 09/12/2022

**37. SYSTEM AND PERCEPTION BASED METHOD OF TRAFFIC CONTROL AND ITS MANAGEMENT
THEREOF** (Published).

Application Number: 202241074796	Date of Filing: 23/12/2022
Journal Number: 01/2023	Date of Publication: 06/01/2023

38. SYSTEM AND METHOD OF PERCEPTION BASED MOTION TRACKING FOR CREDIT urinal CARD FRAUD DETECTION (Published).

Application Number: 202241074795	Date of Filing: 23/12/2022
Journal Number: 52/2022	Date of Publication: 30/12/2022

39. INTERNET OF THINGS (IOT) BASED REMOTE HEALTH MONITORING SYSTEM WITH LONG RANGE(LORA) WIRELESS NETWORK (Published).

Application Number: 202311003117	Date of Filing: 16/01/2023
Journal Number: 04/2023	Date of Publication: 27/01/2023

40. A PROCESS FOR HIGH PROTEIN NUTRITIOUS BAKED SNACK FOOD (Published).

Application Number: 202321003299	Date of Filing: 17/01/2023
Journal Number: 06/2023	Date of Publication: 10/02/2023

41. NANOTECHNOLOGY SUITABLE FOR AGRICULTURE: PREPARATION OF A NANO ENCAPSULATED PESTICIDE FORMULATION (Published).

Application Number: 202321003325	Date of Filing: 17/01/2023
Journal Number: 07/2023	Date of Publication: 17/02/2023

42. SYSTEM AND METHOD FOR PLANT DISEASE DETECTION USING NEURAL NETWORKS (Published).

Application Number: 202341007762	Date of Filing: 07/02/2023
Journal Number: 12/2023	Date of Publication: 24/03/2023

43. AUTOMATED UNDERGROUND PIPELINE MONITORING SYSTEM FOR SAFETY (Published).

Application Number: 202341060158	Date of Filing: 07/09/2023
Journal Number: 42/2023	Date of Publication: 20/10/2023

44. A-IOT BASED WINDOW ACTUATORS SYSTEM FOR ENHANCED ENERGY EFFICIENCY: INTELLIGENT CONTROL AND OPTIMIZATION (Published).

Application Number: 202341085025	Date of Filing: 13/12/2023
Journal Number: 01/2024	Date of Publication: 05/01/2024

45. DEVELOPMENT OF NOVEL BLOCKCHAIN TECHNOLOGY ENABLED SECURED HEALTHCARE DATA MANAGEMENT SYSTEM (Published).

Application Number: 202341087499	Date of Filing: 21/12/2023
Journal Number: 05/2024	Date of Publication: 02/02/2024

46. INTEGRATED AMBULANCE TRACKING SYSTEM AND METHOD (Published).

Application Number: 202341087526	Date of Filing: 21/12/2023
Journal Number: 05/2024	Date of Publication: 02/02/2024

47. IOT BASED SMART BIOMETRIC SAFETY AND SECURITY IN MODERN MOTORBIKES (Published).

Application Number: 202441011434	Date of Filing: 19/02/2024
Journal Number: 09/2024	Date of Publication: 01/03/2024

Journal Publications:

INTERNATIONAL JOURNALS

1. "Luminescence quenching characterisation of Ruthenium (II)-phenanthroline complexes with polyphenols in CH₃ CN", "**Journal of Photochemistry and Photobiology**", 2024 (Accepted for Publication).
2. "Synthesis, binding studies, and the photophysics of surfactant complexes with serum albumins" "**Bulletin of Chemical Society of Ethiopia**", 2024 (Accepted for Publication).
3. "Hybrid Deep Learning model based Smart Monitoring System for Covid-19 Patients" "**Bulletin of Chemical Society of Ethiopia**", 2024 (Accepted for Publication).
4. "Remote patient monitoring system using Internet of things" "**International Journal of System Design and Information Processing (SDIP)**", 12(2), 2024, 197-206
5. "Synthesis, Spectral Characterization and Anticancer activities of Isoniazid Based Schiff Base", "**African Journal of Biological Sciences**", 6(8), 2024, 2505 - 2514.

6. "Synthesis, Spectral Characterization, Antibacterial and Anticancer Evaluation of Novel Isoniazid based Schiff Base Ligand derived Transition Metal Complexes" **"Asian Journal of Chemistry"**, 36(3), 2024, 579-585.
7. "Investigation on the impact of carbon nanoplatelets on the thermal behavior of magnesium composites" **"Thermal Science"**, 28(1), 2024, 765-774.
8. "EcoDynoSim" Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), 2023, 1-6 (**IEEE XPLORE**).
9. "Standardization of Kajar Manapaagu" Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), 2023, 1-9 (**IEEE XPLORE**).
10. "Autonomous Billing Cart for Retail Store " Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), 2023, 1-5 (**IEEE XPLORE**).
11. "Optimization of Metal-Matrix Composites by W-EDM with CNT" Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), 2023, 1-7 (**IEEE XPLORE**).
12. "Impact of Polycystic Ovary Syndrome (PCOS) on Fertility and Pregnancy Outcomes" Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), 2023, 1-6 (**IEEE XPLORE**).
13. "Hydro-informatics for drainage management in a smart city using artificial intelligent, IoT and machine learning" **"AIP Conference Proceedings"**, 2800(1), 2023.
14. "Synthesized and hypothesized schiff base ligand and its metal (II) complexes, DNA binding mode" **"Bulletin of the Chemical Society of Ethiopia"**, 37(5), 2023, 1133-1139.
15. "Dithieno Pyrrole: A Green Alternative for stabilizing the synthesis of Nanopolymers" **"Oxidation Communication"**, 2023, 46(2), 2023, 395-404.
16. "An Intelligent Approach for Electricity Generation: Microbial Fuel Cell," 2022 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), Chennai, India, 2022, pp. 1-4 (**IEEE XPLORE**).

17. "Computational System Based on Machine Learning with Novel Hybrid Security Technique to Classify Crime Offenses," 2022 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), Chennai, India, 2022, pp. 1-3 (**IEEE XPLORE**).
18. "Securing IIoT sensors communication using blockchain technology," 2022 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), Chennai, India, 2022, pp. 1-4 (**IEEE XPLORE**).
19. "Movement of Cycle Using Electro-Magnetism Along with Free Energy Generation," 2022 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), Chennai, India, 2022, pp. 1-4 (**IEEE XPLORE**).
20. "An Intelligent Waste Disposal System for Hygienic Society," 2022 1st International Conference on Computational Science and Technology (ICCST), CHENNAI, India, 2022, pp. 793-797 (**IEEE XPLORE**).
21. "Autonomous Traffic System Management based on YOLOR," 2022 1st International Conference on Computational Science and Technology (ICCST), CHENNAI, India, 2022, pp. 897-902 (**IEEE XPLORE**).
22. "A Review Of Biological Applications Of Isoniazid Derived Schiff Base Complexes", **"Journal of Pharmaceutical Negative Results"**, 13(7), 2022, 8277-8282.
23. "Studies on Variable Biological Applications of Schiff Base Complexes", in the journal **"International Journal of Scientific Research in Mechanical and Materials Engineering"**, Volume 6, Part 7, 224-231, 2022.
24. "An Understanding in Etiopathogenesis of Vitiligo based on Melanin Synthesis- A single case study report", in the journal **"International Journal of Special Education"**, Volume 37, Part 3, 2022.
25. "Enhanced Intelligent Smart Home Control and Improved Security System", in the journal **"International Journal of Scientific Research in Computer Science, Engineering and Information Technology"**, Volume 8, Part 7, 206-211, 2022.
26. "Influence of IOT in Microbial Fuel Cell for Mass Production of Electricity", in the journal **"International Journal of Scientific Research in Science, Engineering and Technology"**, Volume 9, Part 12, 115-122, 2022.

27. "Investigation of Surface Roughness in Machine using Artificial Intelligence Techniques", 2022 International Conference on Communication, Computing and Internet of Things (IC3IoT), Chennai, India, 2022, pp. 1-4, (**IEEE Xplore**).
28. "Synthesis, Structural, Spectroscopic, and Hirshfeld Surface Analysis, and DFT Investigation of Benzaldehyde Semicarbazone", "**Advances in Materials Science and Engineering**", vol. 2022, Article ID 4091119, 14 pages, 2022.
29. "Investigation on Tensile Behaviour of Different Weld Joints through Taguchi Approach", "**Advances in Materials Science and Engineering**", vol. 2022, Article ID 5258014, 9 pages, 2022.
30. "Study on the impact of twisted tapes on the water temperature enhancement in solar water heater", in the journal "**Materials Today: Proceedings**", Volume 62, Part 8, 2022, Pages 5114-5118.
31. "Hydro-informatics for Drainage Management in a Smart City using Artificial Intelligent, IoT and Machine Learning", "**AIP Conference Proceedings**", 2800, 020053 (2023).
32. "Mechanical behavior of nano ceramic particles reinforced aluminium matrix composite", in the journal "**Materials Today: Proceedings**", Volume 59, Part 2, 2022, Pages 1472-1477.
33. "Shoulder Surfing Attack Trusted Verification – A Survey", in the journal "**ECS Transactions**", Vol 107(1) 2021, 16041.
34. "Mechanical Strengthening of Light Weight Aluminum alloys through Friction Stir Process", in the journal "**Advances in Materials Science and Engineering**", vol. 2022, Article ID 8907250, 10 pages, 2022.
35. "Study on Developments in Protection Coating Techniques for Steel", in the journal "**Advances in Material Science and Engineering**", Vol 2022, Article ID 2843043.
36. "Mechanical and tribological properties of TiC nanoparticles reinforced polymer matrix composites", in the journal "**Materials Today: Proceedings**", Volume 59, Part 2, 2022, Pages 1472-1477.

37. "The compressive properties of AZ92A magnesium alloy containing titanium were studied by varying the hot-pressing and annealing temperature ranges" in the journal **"Materials Today: Proceedings"**, Volume 59, Part 2, 2022, Pages 1491-1497.
38. "Effect of Tool Profile Influence in Dissimilar Friction Stir Welding of Aluminium Alloys (AA5083 and AA7068)", **"Advances in Materials Science and Engineering"**, vol. 2021, Article ID 7387296, 7 pages, 2021.
39. "Green synthesis of europium doped titanium dioxide nanoparticle and its photocatalytic application, **"AIP Conference Proceedings"** 2464, 040002 (2022).
40. "Ruthenium(III) complexes: Synthesis, spectral, magnetic and electrochemical characterization", **"AIP Conference Proceedings"**, 2464, 040003 (2022)
41. "Utilisation possibilities of waste medium-density fiberboard: A material recycling process" in the journal **"Materials Today: Proceedings"**, Volume 59, Part 2, 2022, Pages 1362-1366.
42. "Investigating the influence of nanoparticle disbanded phase changing material (NDPCM) on the working of solar PV" in the journal **"Materials Today: Proceedings"**, Volume 56, Part 3, 2022, Pages 1341-1346.
43. "A review on medicinal plant adhatodai- therapetic choice for the management of COVID 19", **"International Journal of Botany Studies"**, Volume 6, Issue 4, 2021, Page No. 988-992, ISSN: 2455-541X.
44. "An Effective Parkinson's Disease Prediction Using Logistic Decision Regression and Machine Learning with Big Data", **"Turkish Journal of Physiotherapy and Rehabilitation"**, 32(3), ISSN 2651-4451 | e-ISSN 2651-446X, 2021, 778 -786.
45. "Urinal Microbial Fuel Cell: Electricity Generation — An Eco friendly Approach," 2020 International Conference on Power, Energy, Control and Transmission Systems, 2020, pp. 1-6, **(IEEE Xplore)**.
46. "Piezoelectric Pavement," 2020 International Conference on Power, Energy, Control and Transmission Systems, 2020, pp. 1-6, **(IEEE Xplore)**.

47. "Power Production by Microbial Fuel Cell having Conductive Polymer Electrode and Bio Catalysts," 2020 International Conference on Power, Energy, Control and Transmission Systems, 2020, pp. 1-4, **(IEEE Xplore)**.
48. "Study on nano particles of Aluminium oxide and Magnesium oxide used counter flow heat exchanger heat transfer, effectiveness enhancement", **"Materials Today Proceedings"**, 33(7), 4586-4591, 2020.
49. "Simple study on behavior of composites with augmentation of Silicon carbide on Al6061 Aluminium alloy based on mechanical properties", **"Materials Today Proceedings"**, 2020, 33, pp. 4573-4577.
50. "Experimental Research on Glass Fibres / Caustic soda Treated Banana Fibers Hybrid Composite", **"Materials Today Proceedings"**, Proceedings Volume 33, Part 7, 2020, Pages 4408-4411.
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54. "Electrochemical behavior of Ni-Ti (Superelastic) Alloy in artificial saliva in the presence of Phexin", **"Materials Today Proceedings"**, 36(1), 878-882, 2021.
55. "Synthesis, spectral, electrochemical and DNA binding properties of Ruthenium (III) complexes of Schiff bases containing N,O Donor atoms", **"Materials Today proceedings"**, 36, 809-813, 2021.
56. "Experimental investigation regarding emissivity of black nickel coated on aluminum surface", **"Materials Today Proceedings"**, Volume 37, Part 2, 2021, Pages 248-251.
57. "Effects on the Crystal Structure, Magnetic and Optical Properties Nd doped Co₃O₄ Nanoparticles Prepared by Microwave Synthesis", **"Journal of Superconductivity and Novel Magnetism"**, Vol 32, No4, pp1-7, 2019.

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59. "Study of the effect of photoluminescence structural and Magnetic Properties of Nd doped Nd_xNi_{1-x}O_x hexagonal Particles", "**Physica E: Low-Dimensional Systems and Nanostructures**", Vol.118, 2020.
60. "Implementation of Ammonia Gas Leakage Detection & Monitoring System using Internet of Things, **IEEE Xplore**, 2019, pp. 778-781.
61. "Synthesis, Properties and Catalytic Applications of Co₃O₄ Nano Materials with Photoluminescence Emission Spectra for Oxygen Vacancies", "**Journal of Advanced Science Engineering and Medicine**", 11(7) (2019) 600-605.
62. "Synthesis, DNA Binding, Anticancer and Cytotoxic Evaluation of Novel Ruthenium (II) Isatin based Schiff base complex", "**Rasayan Journal of Chemistry**", 12(2) (2019) 855-859.
63. "A New Understanding of Mn₃O₄ Catalysts Different Fuels for Highly Selective Oxidation of Cyclohexane", "**Sensor Letters**", 17(7) 2019 530-537.
64. "A starch-assisted innovative synthesis of spinel-structured and ferromagnetic behavior of Fe₃O₄ nanoparticles catalytic activity evaluated in the selective oxidation", "**SN Applied Sciences**", 1(5) 2019 472.
65. "4-(4-Methoxy phenyl) naphtha [2,3-b]-thiophene", "**Acta Crystallographica Section E**", E68, 2012, o875-o876.
66. "Synthesis, spectroscopic Characterization, Electrochemical behavior and Antibacterial activity of Ru(III) complexes with 2-[(4-N,N'-dimethylamino amino phenylimino)-methyl]-4-halophenol", "**Spectrochimica Acta Part A : Molecular and Biomolecular spectroscopy**", 72 (2009) 796-800.
67. "2-Bromo-4-chloro-6-(4-fluoro phenyl imino methyl) phenol", "**Acta Crystallographica Section E**", E64, 2008, o1333.

68. "Green Synthesis and catalytic applications of Fe₂O₃ nanomaterials, "SSEC Tech Journal", VOL 11, 2011, 11-16 (ISSN 0975-2846).

69. "Biological importance of indole nucleus", "SSEC Tech Journal", VOL 9, 2011, 25-29 (ISSN 0975-2846).

"Transition metal complexes-An overview", "SSEC Tech Journal", VOL 8, 2009, 69-73 (ISSN 0975-2846).

Books / Book Chapters:

BOOKS EDITED:

1. "Innovations for Sustainable Development" by Dr. G. Puthilibai, ESN Publications, August 2023. (ISBN-978-93-95196-79-6).
2. "Futuristic Trends in Chemical Material Sciences & Nano Technology" by Dr. G. Puthilibai, IIP Publications (Open Access), August 2023 (Vol 2), (ISBN-978-93-95196-79-6).
3. "Current Trends in HealthCare and Monitoring" by Dr. G. Puthilibai, ESN Publications, August 2023. (ISBN-978-93-95196-77-2).
4. "Cutting Edge Technologies in Health and Allied Science" by Dr. G. Puthilibai, ESN Publications, August 2023. (ISBN-978-93-95196-81-9).

BOOKS AUTHORED:

5. "Environmental Science and Technology" by G. Puthilibai, Gotari Publications, First Edition, May 2005.
6. "Applied Chemistry - I" by G. Puthilibai, Charulatha Publications, First Edition, June 2006. (ISBN-978-904915-3-2).
7. "Engineering Chemistry – I" by G. Puthilibai, Charulatha Publications, First Edition, May 2007. (ISBN-978-81-904915-6-3).

BOOK CHAPTERS AUTHORED:

8. "Management Education Post Covid 19" (Book Chapter) by Dr. G. Puthilibai, Bestow Edutrex, February 2021. (ISBN-978-93-90153-00-8).
9. "Novel System and method for developing farm management for modern agriculture" (Book Chapter) by Dr. G. Puthilibai, ESN Publications, August 2023. (ISBN-978-93-95196-79-6).
10. "Fabrication and method of operation of smart footwear" (Book Chapter) by Dr. G. Puthilibai, ESN Publications, August 2023. (ISBN-978-93-95196-79-6).
11. "EDGE -IOT Fusion Wave" (Book Chapter) by Dr. G. Puthilibai, ESN Publications, August 2023. (ISBN-978-93-95196-79-6).
12. "Securing IIoT with Blockchain: A Reliable Wireless Scheme for Smart Sensor Activities" (Book Chapter) by Dr. G. Puthilibai, ESN Publications, August 2023. (ISBN-978-93-95196-79-6).
13. "Internet of things based (IoT) system and method of farm management for modern agriculture" (Book Chapter) by Dr. G. Puthilibai, ESN Publications, August 2023. (ISBN-978-93-95196-79-6).
14. "Cloud based hospital management system" (Book Chapter) by Dr. G. Puthilibai, ESN Publications, August 2023. (ISBN-978-93-95196-77-2).
15. "Mathematical modeling to analyze the virus load of a patient - A stochastic approach" (Book Chapter) by Dr. G. Puthilibai, ESN Publications, August 2023. (ISBN-978-93-95196-77-2).
16. "Nurturing Mental Health – A Pathway to Personal Flourishing" (Book Chapter) by Dr. G. Puthilibai, ESN Publications, August 2023. (ISBN-978-93-95196-77-2).
17. "The Cosmic Expedition" (Book Chapter) by Dr. G. Puthilibai, ESN Publications, August 2023. (ISBN-978-93-95196-81-9).
18. "Calibration of flow meters" (Book Chapter) by Dr. G. Puthilibai, ESN Publications, August 2023. (ISBN-978-93-95196-81-9).
19. "Mathematical design and development of surface water treatment and plant" (Book Chapter) by Dr. G. Puthilibai, ESN Publications, August 2023. (ISBN-978-93-95196-81-9).

20. "A review of biological applications of Isoniazid derived schiff base complexes" (Book Chapter) by Dr. G. Puthilibai, ESN Publications, August 2023. (ISBN-978-93-95196-81-9).
21. "Combustible gas leakage detection & monitoring system using internet of things" (Book Chapter) by Dr. G. Puthilibai, ESN Publications, August 2023. (ISBN-978-93-95196-81-9).
22. "Autonomous traffic system management based on YOLOR" (Book Chapter) by Dr. G. Puthilibai, ESN Publications, August 2023. (ISBN-978-93-95196-81-9).
23. "Clean tech waste bin system" (Book Chapter) by Dr. G. Puthilibai, ESN Publications, August 2023. (ISBN-978-93-95196-81-9).
24. "Method of potential resource recovery from municipal solid waste using refuse derived fuel" (Book Chapter) by Dr. G. Puthilibai, ESN Publications, August 2023. (ISBN-978-93-95196-81-9).
25. "Antibacterial, antifungal, anticancer and anti-osteoporosis studies of ruthenium-based schiff base complexes" (Book Chapter) by Dr. G. Puthilibai, ESN Publications, August 2023. (ISBN-978-93-95196-81-9).
26. "Computational system based on machine learning with novel hybrid security technique to classify crime offenses" (Book Chapter) by Dr. G. Puthilibai, ESN Publications, August 2023. (ISBN-978-93-95196-81-9).
27. "Study on variable area nonlinear chemical process" (Book Chapter) by Dr. G. Puthilibai, ESN Publications, August 2023. (ISBN-978-93-95196-81-9).

Awards:

Startup:

Webinar:

Resource Person:

1. Acted as expert talk on **“4th Quarter IIC session the complete roadmap for patent filing and approval”** organized by Sri Sairam Homoeopathy Medical college and research centre from 09/08/2024 to 12/08/2024.
2. Conducted a **“One week workshop cum Intellectual property clinic 2024 phase-II”** organized by IPR Cell in association with Sairam Techno Incubator Foundation of Sri Sairam Engineering College (Autonomous), Chennai from 31/07/2024 to 06/08/2024.
3. Acted as expert talk on **“Investigating intellectual property a research perspective”** organized by Rajalakshmi Engineering College (Autonomous), on 01.06.2024.
4. Conducted a Workshop on **“Intellectual property rights and IP management for startup”** organized by Sri Sairam Siddha Medical College and research center on 24.05.2024.
5. Delivered an expert talk as an **“Innovation Ambassador to life-saving professionals, nurses, on empowering them through understanding patents and IP protection in healthcare innovation”**. This lecture is part of the Impact Lecture Series sponsored by the MoE's AICTE Institution Innovation Council at our mentee institution, ES College of Nursing on 03.05.2024
6. Acted as expert talk on **“Fostering innovation through intellectual property rights protection”** organized by VIT, 13.04.2024.
7. Delivered a talk on **“Intellectual property and its management for startups as an Institution Innovation Council ambassador”**, hosted by the Mechanical and Automation Department at sri sairam Engineering college, autonomous on 10.04.2024
8. Delivered a guest talk on **“Intellectual Property & IP Management for Startup”**(MoE's IIC listed activity) at Sathyabama University for Information Technology Students and Faculty on 03.04.2024.
9. Delivered an invited talk as an expert at the **“One-Day Workshop on Innovation and Intellectual Property Rights”** organized by the Department of Chemistry for PG students and faculty at GTN College, Dindigul on 07.03.2024.

10. Acted as Chief guest for the event **“Science Exposition-NERDNIA 2023”**-Step towards a brighter future under the theme of **“The quest for Scientific Knowledge never ends: There is always more to explore”**, organised by KRM Public School, Villivakkam, Chennai.
11. Conducted a **“Five days workshop cum Intellectual property clinic 2024 phase-I”** organized by IPR Cell in association with Sairam Techno Incubator Foundation of Sri Sairam Engineering College (Autonomous), Chennai from 26.02.2024-01.03.2024.
12. Acted as **panel/expert committee member** in the interview panel for the recruitment of Ad hoc teaching staff recruitment conducted by Kendriya Vidyalaya Sangathan (HRD Ministry) held at Kendriya Vidyalaya No 1, AFS, Tambaram, Chennai-73 on 29.02.2024.
13. Delivered an expert talk on "Patent Filing and Prosecution Procedure" at a training program on "Drafting Skills for Patent and Design Filing & Case Studies" organized by the IP Cell of Mother Teresa Women's University, sponsored by the Tamil Nadu State Council for Science and Technology, Chennai on 22.02.2024.
14. Conducted an **“One day Workshop Cum Training (As part of TNSCST Sponsored National Level 5days FDP organized by IIC of Women’s Christian College, Chennai) & Visit To Incubation Centre”** organized by Department of Chemistry: R&D Centre in association with IPR Cell and Institutions Innovation Council on 01.02.2024.
15. Delivered an expert talk on **'Technology Transfer and Commercialization Strategies'** as part of the 5-day faculty development program on Intellectual Property Rights sponsored by the Tamil Nadu State Council for Science and Technology, organized by the Institutions Innovation Council of Women's Christian College, Chennai, from 29.01.2024 to 02.02.2024.
16. Acted as evaluator in **“The Bureau of Indian Standards - Standard Club”** in association with the Intellectual Property Rights Cell of Sri Sairam Engineering College, organized a technical event called ProSafTechFest, focusing on product safety and standards on 04.01.2024.

17. Delivered an expert talk on **“Green metallic nanoparticle biosynthesis to application”** in International Conference on Recent Advances in Science, Technology, Engineering Management and Social Science 2023 on 06.10.2023.
18. Delivered an expert talk in the three days Faculty Development Program entitled **“Intellectual Property Rights(IPR) & Management”**, organized by Institute For Engineering Research and Publication(IFERP) between 26.04.2023-28.04.2023 on account of World IP Day.
19. Acted as **Judge** for the Cluster level Jawaharlal Nehru National Science, Mathematics and Environment Exhibition held at KV NO 1, AFS, Tambaram, Chennai on 12.04.2023.
20. Conducted and Delivered an expert talk in the **“Four days workshop cum IP Clinic-Intellectual Property Clinic 23 Phase-III (We can assist you and your team for IP filing)”** organized by IPR Cell in association with Sairam Techno Incubator Foundation of Sri Sairam Engineering College (Autonomous), Chennai from 16.10.2023-19.10.2023.
21. Conducted an Webinar on **(“Empowering the young minds to innovate for impact”)SIH-2023**, organized by Intellectual property rights cell on 07.09.2023.
22. Conducted and Delivered an expert talk in the **“One Week workshop cum IP Clinic-Intellectual Property Clinic 23 Phase-II (We can assist you and your team for IP filing)”** organized by IPR Cell in association with Sairam Techno Incubator Foundation of Sri Sairam Engineering College (Autonomous), Chennai from 07.06.2023-14.06.2023.
23. Conducted and Delivered an expert talk in the **“Two days workshop cum Intellectual property clinic (we can assist you and your team for patent filing)”** organized by IPR Cell in association with Sairam Techno Incubator Foundation of Sri Sairam Engineering College (Autonomous) Chennai from 13.03.2023-14.03.2023.
24. Acted as **panel/expert committee member** in the interview panel for the recruitment of Ad hoc teaching staff recruitment conducted by Kendriya Vidyalaya Sangathan (HRD Ministry) held at Kendriya Vidyalaya No 1, AFS, Tambaram, Chennai-73 on 04.03.2023.

25. Conducted and Delivered an expert talk in the **“One week workshop cum Mega IP Clinic-Intellectual Property & Innovation Product Clinic (We can assist you and your team for IP filing)”** organized by IPR Cell in association with Sairam Techno Incubator Foundation of Sri Sairam Engineering College (Autonomous), Chennai from 01.12.2022-07.12.2022.
26. Acted as a **Session Chair in the IEEE Technically Sponsored Third International Conference On “Power, Energy, Control And Transmission Systems -ICPECTS’2022”** organized by Department Of Electrical And Electronics Engineering Sri Sairam Engineering College (Autonomous), Chennai On 08.12.2022 And 09.12.2022.
27. Delivered an expert talk in One day seminar entitled **“Successful Entrepreneurs and their Entrepreneurship Skills” (AICTE-MoE’s IIC Calendar activity)**, organized by IIC-SIMATS & STEP UP CELL of Saveetha School of Engineering, Saveetha University, Chennai on 06.01.2023.
28. Delivered an expert talk in One day State level Workshop on **“Problem Solving and Ideation” (AICTE-MoE’s IIC Calendar activity)**, organized by Institutions Innovation Council-IIC jointly organized by Department of Commerce (C.A), Sri Akilandeswari Women’s College, Wandiwash on 06.01.2023.
29. Delivered an expert talk on **“Intellectual Property Rights with focus on Copyrights and Patent Filing”**, organized by Department of Library and Information Science in association with SEC NDLI Club of Sri Sairam Engineering College (Autonomous), Chennai in association with National Digital Library of India on 18.11.2022.
30. Acted as **Evaluator / Judge** for the KVS Cluster level 30th National Children's Science Congress (NCSC) - 2022 Organised by Kendriya Vidyalaya No.2, Tambaram, Chennai(Under Ministry of Education, Govt of India) held at KV NO 1, AFS, Tambaram, Chennai on 19.10.2022.
31. Delivered an expert talk on **“Intellectual Property Rights: Patent Literature-Prior Art Search”**, organized by Department of Artificial Intelligence and Data Science, Sri

Sairam Institute of Technology (Autonomous), Chennai in association with National Digital Library of India on 14.10.2022.

32. Delivered an expert talk "**Hydrogen and fuel Cells: An Ecofriendly alternative for resiliency & patent landscape on hydrogen fuel cell in transportation**", organized by Department of Chemistry, Saveetha Engineering College, Chennai on 30/9/2022.
33. Delivered an expert talk on "**Mind Blow of Start Up ... IPR and Start Up**", organized by Department of Civil Engineering in association with Entrepreneurship Cell & IEI, Sri Sairam Engineering College (Autonomous), Chennai on 27.09.2022.
34. Delivered an awareness talk on "**Smart India Hackathon and shared an experience of participation in the SIH as a Winner team (SIH-2022) mentor**" organized by MTech Computer Science and Engineering, Sri Sairam Engineering College, Chennai on 27.09.2022.
35. Delivered a talk in the Awareness program on "**SMART INDIA HACKATHON**" organized by Department of Electrical and Electronics Engineering in association with IEEE EDS SEC SBC and Skill development Club, Sri Sairam Engineering College, Chennai on 23.09.2022.
36. As a mentor of "**Smart India Hackathon (SIH-2022)** , the winning team shared an experience of participation in the SIH organised by the Department of Computer Science and Engineering, Sri Sairam Engineering College, Chennai on 20.09.2022.
37. Delivered an expert talk on "**Insights on Intellectual Property Rights**", organized by Department of M.Tech Computer Science Engineering in association with IEEE Systems, Man and Cybernetics Society, Sri Sairam Engineering College, Chennai on 26/9/22.
38. Delivered an awareness talk on "**Intellectual Property Rights**" organized by IPR Cell and Department of Mechanical and Automobile Engineering, Sri Sairam Engineering College, Chennai on 16.09.2022.
39. Delivered an orientation talk on "**Intellectual Property Rights**" organized by IPR Cell and Department of Computer Science and Engineering, Sri Sairam Engineering College, Chennai on 17.09.2022.

40. Delivered an expert talk on **“Intellectual Property Rights (IPR) and Start Up”**, organized by Department of Artificial Intelligence and Data Science in association with IEEE Computational Intelligence Society, Sri Sairam Engineering College (Autonomous), Chennai on 16.09.2022.
41. Delivered an expert talk on **“Intellectual Property Rights (IPR) and Patenting in Chemistry”**, organized by Corrosion Science & Nano Technology Unit, Loyola College, Chennai on 7/9/22.
42. Delivered an expert talk in the **“Workshop on Intellectual Property Rights (IPRs) and IP Management for Start-up”**, organized by Institution’s Innovation Council, Prince Dr. K. Vasudevan college of engineering and technology, Chennai on 1/8/22.
43. Delivered an expert talk on **“Innovation & IPR”**, organized by Institution’s Innovation Council, ST Jude’s College, Thoothoor on 22/7/22.
44. Acted as a resource person in the Workshop on **“Intellectual Property Rights (IPRs) and IP management for Start up”** organized by Department of Electronics and Communication Engineering in association with IPR Cell & SEC-IIC of Sri Sairam Engineering College, Chennai on 11.05.2022.
45. Acted as a Resource Person in the **“Intellectual Property Clinic (IP Clinic-KAPILA Funding)”** organized by IPR Cell, MoE’s SEC IIC in association with Department of Electronics and Instrumentation Engineering, Sri Sairam Engineering College (Autonomous), Chennai on 12.05.2022.
46. Delivered an Expert Talk in the seminar on **“Intellectual Property Rights in focus with Patent drafting and Filing Tips”** organized by Department of Electrical and Electronics Engineering in association with IEEE Women in Engineering(WIE) affinity group, Sri Sairam Engineering College (Autonomous), Chennai on 27.04.2022.
47. Invited to deliver the Scientific talk on the topic **“Emerging trends and Challenges in IPR”** in the National Seminar on IPR and AYUSH Drugs- Prospect and Challenges on 23/03/2022.

48. Acted as a resource person in an **“Intellectual Property Rights Clinic (IP Clinic)”** organized by IPR Cell, SEC-IIC and Department of Electronics and Communication Engineering, Sri Sairam Engineering College, Chennai on 15.11.2021 and 16.11.2021.
49. Organized and delivered an **“Intellectual Property Rights Clinic (IP Clinic)”** through Webinar conducted by IPR Cell, IIC and Department of Electronics and Communication Engineering, Sri Sairam Engineering College, Chennai on 27.04.2022.
50. Delivered an expert talk on **“Importance of intellectual property rights in academic research”**, organized by Institution’s Innovation Council & Department of Computer Applications, Sona College of Arts and Science, Salem on 26/4/22.
51. Acted as **panel/expert committee member** in the interview panel for the recruitment of Ad hoc teaching staff recruitment conducted by Kendriya Vidyalaya Sangathan (HRD Ministry) held at Kendriya Vidyalaya No 1, AFS, Tambaram, Chennai-73 on 18.03.2022.
52. Delivered an expert talk in the Workshop on **“Intellectual Property Rights and IP Management for Start Up”** through Webinar conducted by Institute Innovation Council of Panimalar Institute of Technology, Chennai on 23.02.2022.
53. Participated in the National Webinar on **“Intellectual Property Rights : Bird’s Eye View”** organized by The Central Library, Govt. DSV Sanskrit PG College, Raipur, Chhattisgarh, India on 02 March 2022.
54. Acted as a **Guest Speaker** and delivered an Invited talk on “Synthesis, Chemical, Electrochemical and Biological Characterization of Metal Complexes in the International Conference on Engineering, Medicine, Management, Arts and Science ‘EMMA 2021’ Organized by Chendur Research Foundation during December 24, 2021 and December 26, 2021.
55. Acted as a **Session Chair** in the International Conference on Engineering, Medicine, Management, Arts and Science ‘EMMA 2021’ Organized by Chendur Research Foundation during December 24, 2021 and December 26, 2021.

56. Delivered an expert talk on “**Intellectual Property Rights with Focus on Patents**”, organized by Department of Chemistry, Bharath Institute of Science and Technology, Chennai on 21/12/21.
57. Acted as a **Session Chair** in the Second International Conference on Emerging Trends in Materials, Computing and Communication Technologies ‘ICETMCCT 2021’ Organized by Annai Vailankanni College of Engineering, AVK Nagar, Pottalkulam during December 9, 2021 and December 10, 2021.
58. Conducted an “**Ideation Workshop on Creativity and Innovation**” jointly organized by Institution Innovation Council & Department of Science and Humanities, RMK College of Engineering and Technology (Autonomous), Chennai on 20.11.2021.
59. Delivered **Expert Talk on "Intellectual Property Rights"** through Webinar conducted by IPR Cell, IIC and Department of Artificial Intelligence and Data Science Sri Sairam Engineering College (Autonomous), Chennai on 20.11.2021.
60. Organized and delivered an “**Intellectual Property Rights Clinic (IP Clinic)**” through Webinar conducted by IPR Cell, IIC and Department of Electronic and Instrumentation Engineering, Sri Sairam Engineering College (Autonomous), Chennai on 13.11.2021.
61. Delivered a Talk on “**Scope and Importance of Intellectual Property Rights in Medical Research**” organized by Sri Sairam Siddha Medical College & Research Centre, Chennai on 21.10.2021.
62. Delivered **Expert Talk on “Intellectual Property Rights”** conducted by Department of Civil Engineering in association with IETE, IIC and IPR Cell, Sri Sairam Engineering College (Autonomous), Chennai on 24.09.2021.
63. “Scope and Importance of Intellectual Property Rights for Academic Research”, organized by Institution’s Innovation Council & Department of Mechatronics Engineering, M.A.M School of Engineering, Trichy on 9/9/21.
64. Acted as **panel/expert committee member** in the interview panel for the recruitment of Ad hoc teaching staff recruitment conducted by Kendriya Vidyalaya

Sangathan (HRD Ministry) held at Kendriya Vidyalaya No 1, AFS, Tambaram, Chennai-73 on 11.08.2021.

65. Workshop on **“Intellectual Property Rights and IP Management for Start-Up”** conducted by IPR Cell, IIC and Department of Electronic and Instrumentation Engineering, Sri Sairam Engineering College (Autonomous), Chennai on 29.07.2021.
66. Delivered an **Expert Talk on “Fuel Cell Technology-Status and Future Prospects”** conducted by IPR Cell, IIC and Department of Electrical and Electronics Engineering, Sri Sairam Engineering College (Autonomous), Chennai on 30.07.2021.
67. Delivered **Expert Talk on “Project Based Learning and Patenting”** in the one week FDP on Technical Pedagogy for Empowering Sustainable Advances in Higher Education conducted by T John College, Bengaluru on 19.07.2021.
68. Delivered **Expert Talk on “Fuel Cell as an alternative energy source”** conducted by Easwari Engineering College, Chennai on 01.07.2021.
69. Delivered **Expert Talk on “Research Methodology-Introduction to Research and various Research Opportunities”** in the three days workshop organized by Annai Vailankanni College of Engineering, Kanyakumari on 02.06.2021.
70. Acted as **Judge** for the Cluster level Jawaharlal Nehru National Science, Mathematics and Environment Exhibition held at KV NO 1, AFS, Tambaram, Chennai on 05.04.2021.
71. Acted as a session chair in **National e-Conference on Innovations in Civil Engineering through Sustainable Technologies (NICEST-2021)** Organized by Department of Civil Engineering, Mahatma Gandhi Institute of Technology (MGIT), Gandipet, Hyderabad, held during 26-27 March, 2021.
72. Delivered an expert talk on **“Patent drafting, Filing, and Execution Procedure in India”** organized by IPR Cell & IQAC Cell, CMS College of Engineering and Commerce (Autonomous), Coimbatore, on 20.03.2021.
73. Delivered a guest lecture on **“Agreements and Legislations in Intellectual Property Rights”** organized by IPR Cell, Department of ECE, Sri Sairam Institute of Technology (Autonomous), in association with ISTE, Coimbatore, on 20.03.2021.

74. Delivered **Expert Talk on “Identifying Intellectual Property Components at the early stage of Innovation”** in the one week FDP on Technical Pedagogy for Empowering Sustainable Advances in Higher Education conducted by CMS College of Engineering and Commerce (Autonomous), Coimbatore on 27.02.2021.
75. Delivered an expert talk on **“Intellectual Property Rights with Focus on Patents in Mathematics” in the FDP** organized by the Department of Mathematics, Sri Sairam Engineering College (Autonomous), Chennai, on 03.02.2021.
76. Delivered a webinar on **“Intellectual Property Rights with Focus on Patents & Copyright”** organized by the PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli - 620 020, on 21.01.2021.
77. Conducted an **“Orientation programme for Faculty and Students by an Innovation Ambassador”** conducted by S J C Institute of Technology, Bengaluru on 09.12.2020.
78. Delivered a webinar as a resource person on **“Marine Biodiversity of India: Status and Challenges”** organized by Flora and Fauna Asia Facebook Group & Department of Botany, Seva Bharati Mahavidyalaya, Kapgari, Jhargram, W.B in collaboration with Drishticon Organization, West Bengal on 26.10.2020.
79. Delivered an expert talk on **“Importance of IPR & Filing Process”** through webinar organized by Internal Quality Assurance Cell (IQAC) of Rathinam College of Arts and Science, Coimbatore on 24.10.2020.
80. Delivered awareness talk on **“Importance of Intellectual Property Rights and Patenting”** as a part of AICTE, MHRDs IIC KAPILA: Kalam Program for IP Literacy and Awareness (National Intellectual Property Literacy Week) organized by Sri Sairam Engineering College, Chennai on 19.10.2020.
81. Delivered KeyNote Speech and acted as session chair in the **“World Record event of 150 hours continuous presentation in the International Conference on Multidisciplinary Research and Innovation”** organized by ESN publications in association with Universal Digital University-USA between 03.09.2020 - 09.09.2020.

82. Delivered lecture on **“Project Based Learning and Patenting”** through Webinar in the International FDP on “EDUCATION 4.0” The future ahead conducted by Sri Sairam College of Engineering, Bengaluru on 16.05.2020.
83. Hands-on Training on **“Intellectual Property Rights (IPR) and Patent Practices in India-Research Innovations into patents”** through Webinar series held during 01.06.2020-05.06.2020 conducted by Sri Sairam Engineering college, Chennai-44.
84. Delivered lecture on **“Patent Drafting and Filing Procedure”** through Webinar conducted by Sri Sairam Engineering college (Autonomous), Chennai-44 on 16.05.2020.
85. Acted as **panel/expert committee member** in the interview panel for the recruitment of Ad hoc teaching staff recruitment conducted by Kendriya Vidyalaya Sangathan (HRD Ministry) held at Kendriya Vidyalaya No 1, AFS, Tambaram, Chennai-73 on 16.03.2020.
86. Delivered lecture on **“Roadmap for Patent creation”** in the Research Oriented Faculty Development Training Program (RO-FDP) held on 07.02.2020 conducted by MIT Campus, Anna University Chennai.
87. Delivered an Invited talk on **“Patenting in Algebra”** in the National Seminar held on 31.01.2020 conducted by Queen Mary’s College, Chennai.
88. Delivered lecture on **“Patent Landscape on Desalination”** during the AICTE sponsored 15 days faculty development program (FDP) entitled “The Global Challenges of Desalination” held during 25.11.2019-08.12.2019 conducted by Department of Chemical Engineering, St Joseph’s College of Engineering, and Chennai.
89. Delivered lecture on **“Renewable energy resources-Fuel Cells”** in the ISTE sponsored faculty development program(FDP) held during 22.07.2019-26.07.2019 conducted by Department of Electrical and Electronics Engineering, Sri Sairam Engineering college, Chennai-44.
90. Acted as **Judge** for the Maths and Science Exhibition entitled “Ganith Vigyan Mela 2019” held at MNC Vivekananda Vidyalaya, Kundrathur, and Chennai - 69 on 06.07.2019.

91. Acted as **Chairperson** for the National conference on Chemistry & Materials (NCCM-2019), Department of Chemistry, Saveetha Engineering College, Chennai, on 22/03/2019.
92. Acted as **Panel/Expert Committee Member** in the interview for the recruitment of Ad hoc teaching staff recruitment conducted by HRD Ministry at KV I, AFS, Tambaram, Chennai-73 on 27.02.2019.
93. Acted as **Expert Committee Member** in the interview for the recruitment of Ad hoc teaching staff recruitment conducted by HRD Ministry at KV, Anna Nagar, Chennai on 24.02.2019.
94. Acted as **Session Chair** for the national level symposium in association with ISTE held at Sri Sairam Institute of Technology, Chennai-44 on 16.02.2018.
95. Acted **panel/Expert committee member** in the interview for the recruitment of contractual teachers' recruitment held at KV I, AFS, Tambaram, Chennai-73 on 15.03.2018.
96. Acted as **Panel Member** as a subject expert in the interview for the recruitment of Ad hoc teaching staff recruitment conducted by HRD Ministry at KV II, AFS, Tambaram, Chennai-73 on 14.03.2017.
97. Acted as **Judge** for the Regional Science Exhibition held at KV, Minambakkam, Chennai on 04.02.2016.
98. Acted as **Judge** for the National Level Science and Maths exhibition held at SRDF Vivekananda Vidyalaya, Chennai on 24.08.2016.
99. Acted as **Judge** for the National Level Science Exhibition held at KV I, AFS, Tambaram, Chennai-73 on 21.01.2013.
100. Presented seminar on "**Spectral Characterization of Transition metal Complexes**" at Edusat Hall, Bharath University, Chennai-73 on 06.04.2006.

Online Courses:

ONLINE MOOC (FDP) COURSES COMPLETED: Swayam-NPTEL Platform

1. "**Patent law for Engineers and Scientists**" Twelve weeks, Successfully completed, 2024.

2. ***“Patent Search for Engineers and Lawyers”*** Eight weeks, Successfully completed with **“Elite”** category, 2019.
3. ***“Patent Drafting for beginners”*** Four weeks, Successfully completed with **“Elite+Topper”** category, 2019 (National Topper).
4. ***“Waste water treatment and recycling”*** Twelve weeks, Successfully completed with **“Elite”** category, 2018.
5. ***“Manufacturing of composites”*** Eight weeks, Successfully completed with **“Elite”** category, 2018.

NASSCOM FUTURE SKILLS Platform

6. ***“IoT for beginners”*** Weeks, Successfully completed, April 2020.

UDEMY Platform

7. ***“Inventor 2012 Basic & Advance”*** Weeks, Successfully completed, March 2020.

COURSERA Platform

8. ***“Patenting in Biotechnology”*** Six Weeks, Successfully completed, May 2020.
9. ***“Protecting Business Innovations via Patent”*** Four Weeks, Successfully completed, May 2020.
10. ***“Protecting Business Innovations via Trademark”*** Four Weeks, Successfully completed, May 2020.
11. ***“Protecting Business Innovations via Copyright”*** Four Weeks, Successfully completed, May 2020.
12. ***“Protecting Business Innovations via Strategy”*** Four Weeks, Successfully completed, May 2020.
13. ***“Introduction to Molecular Spectroscopy”*** Four Weeks, Successfully completed, May 2020.

14. ***"Spreadsheets for Beginners using Google Sheets"*** One Week, Successfully completed, May 2020.
15. ***"The Sustainable Development Goals – A global, transdisciplinary vision for the future"*** Four Weeks, Successfully completed, June 2020.
16. ***"COVID-19 Contact Tracing"*** Four Weeks, Successfully completed, May 2020.
17. ***"The Science of well-being"*** Six Weeks, Successfully completed, May 2020.
18. ***"Municipal Solid Waste Management in Developing Countries"*** Four Weeks, Successfully completed, May 2020.
19. ***"INTEGRATIVE HEALTH AND MEDICINE"----->5-Course Specialization.***
 20. ***"Introduction to Integrative Therapies and Healing Practices"*** Four Weeks, Successfully completed, June 2020.
 21. ***"Guided Imagery"*** Four Weeks, Successfully completed, June 2020.
 22. ***"Herbal Medicine"*** Four Weeks, Successfully completed, June 2020.
 23. ***"Aromatherapy: Clinical Use of Essential Oils"*** Four Weeks, Successfully completed, June 2020."
 24. ***"Mindfulness in Integrative Healthcare"*** Four Weeks, Successfully completed, June 2020.
25. ***"Introduction to Psychology"*** Three Weeks, Successfully completed, May 2020.
26. ***"IoT (Internet of Things) Wireless & Cloud Computing Emerging Technologies"*** One Week, Successfully completed, May 2020.
27. ***"Sports and Society"*** Four Weeks, Successfully completed, May 2020.
28. ***"Strategy and Sustainability"*** Four Weeks, Successfully completed, May 2020.
29. ***"Transformation of the Global Food System"*** Four Weeks, Successfully completed, June 2020.
30. ***"Introduction to Project Management with ClickUp"*** One Week, Successfully completed, June 2020.
31. ***"Facial Expression Recognition with Keras"*** One Week, Successfully completed, June 2020.

32. ***“Practical Introduction to the Command Line”*** One Week, Successfully completed, June 2020.
33. ***“Introduction to Google Docs”*** One Week, Successfully completed, May 2020.
34. ***“Create Your First Web App with Python and Flask”*** One Week, Successfully completed, June 2020.
35. ***“Object-Oriented Programming with Java”*** One Week, Successfully completed, June 2020.
36. ***“Create a Resume and Cover Letter with Google”*** One Week, Successfully completed, June 2020.
37. ***“Conjunctions, Connectives, and Adverb Clauses”*** One Week, Successfully completed, August 2020.
38. ***“Beyond the Sustainable Development Goals (SDGs): Addressing Sustainability and Development”*** One Week, Successfully completed, August 2020.
39. ***“Introduction to Relational Database and SQL”*** One Week, Successfully completed, June 2020.
40. ***“Image Processing with Python”*** One Week, Successfully completed, June 2020.
41. ***“Predicting House Prices with Regression using TensorFlow”*** One Week, Successfully completed, June 2020.
42. ***“Classify Radio Signals from Space using Keras”*** One Week, Successfully completed, June 2020.
43. ***“Introduction to Bash Shell Scripting”*** One Week, Successfully completed, June 2020.
44. ***“Retrieve Data using Single-Table SQL Queries”***One Week, Successfully completed, June 2020.
45. ***“Create Informative Presentations with Google Slides”*** One Week, Successfully completed, June 2020.
46. ***“Create Customer Support Data with Google Sheets”*** One Week, Successfully completed, June 2020.
47. ***“Sentiment Analysis with Deep Learning using BERT”*** One Week, Successfully completed, June 2020.

48. ***“Building Digital Media using Graphic Design in Google Slides”*** One Week, Successfully completed, June 2020.
49. ***“Building Custom Regional Reports with Google Analytics”*** One Week, Successfully completed, June 2020.
50. ***“COVID19 Data Analysis Using Python”*** One Week, Successfully completed, June 2020.
51. ***“Create Employee Management System with When I Work”*** One Week, Successfully completed, June 2020.
52. ***“Analyze Text Data with Yellowbrick”*** One Week, Successfully completed, June 2020.
53. ***“Evaluate Machine Learning Models with Yellowbrick”***One Week, Successfully completed, June 2020.
54. ***“Regression Analysis with Yellowbrick”*** One Week, Successfully completed, June 2020.
55. ***“Introduction to Project Management”*** One Week, Successfully completed, June 2020.
56. ***“Save, Load and Export Models with Keras”*** One Week, Successfully completed, June 2020.
57. ***“Generando modelos con Auto Machine Learning”*** One Week, Successfully completed, June 2020.
58. ***“Advanced Features with Relational Database Tables Using SQLiteStudio”*** One Week, Successfully completed, June 2020.
59. ***“Marketing Design with Easil”*** One Week, Successfully completed, June 2020.
60. ***“Classification with Transfer Learning in Keras”*** One Week, Successfully completed, June 2020.
61. ***“Image Classification with CNNs using Keras”*** One Week, Successfully completed, June 2020.
62. ***“Visual Machine Learning with Yellowbrick”*** One Week, Successfully completed, June 2020.

63. ***“Build a Machine Learning Web App with Streamlit and Python”*** One Week, Successfully completed, June 2020.
64. ***“Predicting Salaries with Simple Linear ”*** One Week, Successfully completed, June 2020.
65. ***“Regression with Automatic Differentiation in TensorFlow”***One Week, Successfully completed, June 2020.
66. ***“Beginning SQL Server”***,One Week Successfully completed, June 2020.
67. ***“Creating Custom Callbacks in Keras”*** OneWeek, Successfully completed, June 2020.
68. ***“Logistic Regression with NumPy and Python”*** One Week, Successfully completed, June 2020.
69. ***“Deep Learning Inference with Azure ML Studio”*** One Week, Successfully completed, June 2020.
70. ***“Machine Learning: Predict Numbers from Handwritten Digits using a Neural Network, Keras, and R”*** One Week, Successfully completed, June 2020.
71. ***“Data Visualization with Plotly Express”*** One Week, Successfully completed, June 2020.
72. ***“Machine Learning with H2O Flow”*** One Week, Successfully completed, June 2020.
73. ***“Predict Future Product Prices Using Facebook Prophet”*** One Week, Successfully completed, June 2020.
74. ***“Classification Trees in Python, From Start To Finish”*** One Week, Successfully completed, June 2020.
75. ***“Getting Started with Power BI Desktop”*** One Week, Successfully completed, June 2020.
76. ***“Machine Learning: Predict Poisonous Mushrooms using a Random Forest Model and the FFTrees Package in R”*** One Week, Successfully completed, June 2020.
77. ***“Stock Analysis: Create a Buy Signal Filter using R and the Quantmod Package”*** One Week, Successfully completed, June 2020.
78. ***“Principal Component Analysis with NumPy”*** One Week, Successfully completed, June 2020.

79. ***“Create basic behavior with C# in Unity”*** One Week, Successfully completed, June 2020.
80. ***“API Security on Google Cloud's Apigee API Platform”*** One Week, Successfully completed, June 2020.
81. ***“Improve Business Performance with Google Forms”*** One Week, Successfully completed, June 2020.
82. ***“Build Multilayer Perceptron Models with Keras”*** OneWeek, Successfully completed, June 2020.
83. ***“Hiring and Onboarding Employees with ClickUp”*** One Week, Successfully completed, June 2020.
84. ***“Data Analytics: Scraping Data using Hadley Wickam's Rvest package in R”*** One Week, Successfully completed, June 2020.
85. ***“Customer Journey Prototyping in XD”*** One Week, Successfully completed, June 2020.
86. ***“Use WordPress to Create a Blog for your Business”*** One Week, Successfully completed, June 2020.
87. ***“Applying Data Structures to Manipulate Cleansed UN Data”*** One Week, Successfully completed, June 2020.
88. ***“Create Infographics using Piktochart”*** One Week, Successfully completed, June 2020.
89. ***“Use Canva to Create Social Media Marketing Designs”*** One Week, Successfully completed, June 2020.
90. ***“Portfolio Diversification using Correlation Matrix”*** One Week, Successfully completed, June 2020.
91. ***“Control physics with C# in Unity”*** One Week, Successfully completed, June 2020.
92. ***“Use Canva to Create an Interactive Mind Map”*** One Week, Successfully completed, June 2020.
93. ***“Create a Business Marketing Brand Kit Using Canvas”*** One Week, Successfully completed, June 2020.

94. ***"Git + GitHub for Open Source Collaboration"*** One Week, Successfully completed, June 2020.
95. ***"Support Vector Machine Classification in Python"*** One Week, Successfully completed, June 2020.
96. ***"Manipulate Object Properties with C# in Unity"*** One Week, Successfully completed, June 2020.
97. ***"Unsupervised Machine Learning for Customer Market Segmentation"*** One Week, Successfully completed, June 2020.
98. ***"Build a Deep Learning Based Image Classifier with R"*** One Week, Successfully completed, June 2020.
99. ***"Build a Deep Learning Based Image Classifier with R"*** One Week, Successfully completed, May 2020.
100. ***"c"*** One Week, Successfully completed, June 2020.
101. ***"Investment Risk Management"*** One Week, Successfully completed, June 2020.
102. ***"User Experience Design - Creating User Profiles"*** One Week, Successfully completed, June 2020.
103. ***"AutoML for Computer Vision with Microsoft custom vision"*** One Week, Successfully completed, June 2020.
104. ***"Intro to Time Series Analysis in R"*** One Week, Successfully completed, June 2020.
105. ***"Analyzing Market Attractiveness Using Creately"*** One Week, Successfully completed, June 2020.
106. ***"Automatic Machine Learning with H2O AutoML and Python"*** One Week, Successfully completed, June 2020.
107. ***"Tables and Forms in HTML"*** One Week, Successfully completed, June 2020.
108. ***"Build a Relative Layout App in Android Studio"*** One Week, Successfully completed, June 2020.
109. ***"Image Compression and Generation using Variational Autoencoders in Python"*** One Week, Successfully completed, June 2020.
110. ***"Emotion AI: Facial Key-points Detection"*** One Week, Successfully completed, June 2020.

111. ***“Create and Format a Basic Document with Libre Office Writer”*** One Week, Successfully completed, June 2020.
112. ***“Predict Ideal Diamonds over Good Diamonds using a Random Forest using R”*** One Week, Successfully completed, June 2020.
113. ***“Enhance Organizational Communications with Slack”*** One Week, Successfully completed, June 2020.
114. ***“Using Covid-19 Data to Make Supply Chain Logistics Decisions in Spreadsheets”*** One Week, Successfully completed, June 2020.
115. ***“Getting Started in GIMP”*** One Week, Successfully completed, June 2020.
116. ***“Introduction to Agent-based Modeling with NetLogo”*** One Week, Successfully completed, May 2020.
117. ***“Perform Feature Analysis with Yellowbrick”*** One Week, Successfully completed, June 2020.