

INSTRUZINIA'22

Department of Electronics and Instrumentation Engineering



ERODE SENGUNTHAR ENGINEERING COLLEGE (An Autonomous Institution)

(Approved by AICTE, New Delhi, Permanently Affiliated to Anna University-Chennai
& accredited by NAAC & National Board accreditation (NBA), New Delhi.)

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DEPARTMENT ACTIVITIES

1. Inaugural Function & Guest Lecture-I

ECLAT has conducted its association inaugural and guest lecture-I on the topic "ROLE OF PLC & ROBOTICS IN THE FIELD OF AUTOMATION" on 18.09.2021. The chief guest for this function is Mr.K.Balachandar, Solution Architect, Rockwell Automation, Chennai.



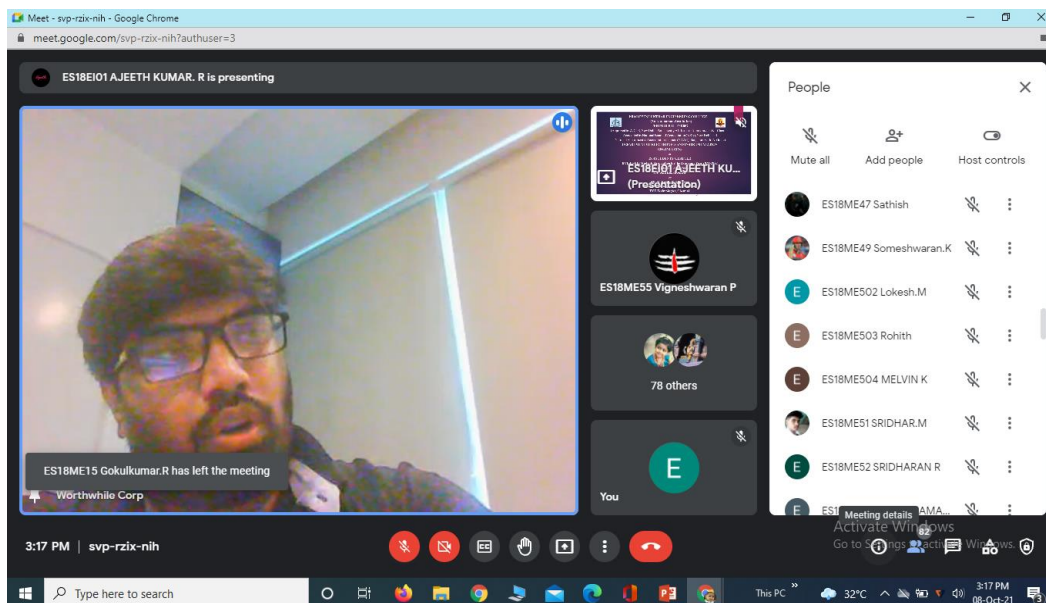
Office Bearers of EIE Association (AY 2021-2022)

PRESIDENT	:	M.RAKESH (Final E.I.E.)
JOINT PRESIDENT	:	R.MERLINPREETA (Final E.I.E.)
SECRETARY	:	S.VISITHRA (Final E.I.E.)
TREASURER	:	S.PAVITHRAN (Final E.I.E.)
JOINT SECRETARY	:	P. BHUVANESHWARI. (Third E.I.E.)
JOINT TREASURER	:	A. AAKASH AYYADURAI (Third E.I.E.)

EXECUTIVE MEMBERS : S.KIRUBAKARAN (Final E.I.E.)
N.DEENADHAYALAN (Final E.I.E.)
K.R.JAYASHREE (Final E.I.E.)
D.SUBALAKSHMI (Final E.I.E.)
L.IMMANUVEL (Third E.I.E.)
K. VANOROJA (Third E.I.E.)
D. DHARANEESH (Second E.I.E.)
R. HARISHRAJA (Second E.I.E.)
V. KIRUTHIKA (Second E.I.E.)
S. PAVITHRA (Second E.I.E.)

2. Guest Lecture-II (Webinar I)

Guest lecture-II on the topic "Soft Skill Enhancement" on 8.10.2021. The chief guest for this function is Mr.Keerthiharan, Associate Manager-HR Department, HCL Technologies,Chennai.



3. Seminar-1

Seminar-1 on the topic "An Art of Writing Journal Paper" on 9.10.2021. The chief guest for this function is Dr. M. N. Saravana Kumar, AP/EIE, Erode Sengunthar Engineering College and Mr. P. Suresh Kumar, AP(Sr.G)/EIE, Erode Sengunthar Engineering College.



4. Seminar-2

Seminar-2 on the topic "Developing Communication Skills" on 13.11.2021. The chief guest for this function is SOLOMON V ANBUHELVAN, AP/ENGLISH, Erode Sengunthar Engineering College.



5. Leader's Talk-1

Leader's Talk-1 on the topic "Job Opportunities in Instrumentation" on 22.11.2021. The chief guest for this function is S.Sathish, Technical Engineer, SJS Automation, Chennai.



6. Leader's Talk-2

Leader's Talk-2 on the topic "Placement Opportunities" on 23.11.2021. The chief guest for this function is M.Ajay, Technical Trainee, SPIC, Tuticorin.



STUDENTS ACTIVITIES AND ACHIEVEMENTS

Internship for students

1. A.Ajaydeva,A.Akashayyadhurai,A.Anbumaini,S.Bharanitharan,R.Bhavithran,L.Immanuvel, M.Naveenkanth, T.Ravi, C.Samvishwa, C.Boobalan of III year EIE got internship at National Small Industries Corporation, Chennai

Placement

1. R.Ajeeth kumar of final year EIE got placed in Jobworld India Pvt Ltd, Bangalore.
2. G.Ashok kumar of final year EIE got placed in NCR Corporation Pvt Ltd, Chennai.
3. K.R.Jayashree of final year EIE got placed in Avasoft, Navalur branch, Chennai.
4. P.Jagadeeshwaran of final year EIE got placed in NCR Corporation Pvt Ltd, Chennai.
5. K.Kalaivani of final year EIE got placed in Tata Consultancy Service.
6. S.Kirubakaran of final year EIE got placed in Jobworld India Pvt Ltd, Bangalore.
7. R.Merlinpreeta of final year EIE got placed in NCR Corporation Pvt Ltd, Chennai.
8. S.Pavithran of final year EIE got placed in Webberax, Ambattur, Chennai.
9. G.Rajan of final year EIE got placed in NCR Corporation Pvt Ltd, Chennai.
10. B.Ramya of final year EIE got placed in NCR Corporation Pvt Ltd, Chennai.
11. K.Rubika of final year EIE got placed in NCR Corporation Pvt Ltd, Chennai.
12. A.Senthil Nathan of final year EIE got placed in Netlink Digital Solutions Pvt Ltd, Chennai.
13. G.Shraya Samarnika of final year EIE got placed in NCR Corporation Pvt Ltd, Chennai.
14. P.Sigamani of final year EIE got placed in NCR Corporation Pvt Ltd, Chennai.
15. S.Sowmiya of final year EIE got placed in NCR Corporation Pvt Ltd, Chennai.
16. D.Subalakshmi of final year EIE got placed in NCR Corporation Pvt Ltd, Chennai.
17. T.Vignesh of final year EIE got placed in NCR Corporation Pvt Ltd, Chennai.
18. S.Visithra of final year EIE got placed in NCR Corporation Pvt Ltd, Chennai.
19. B.Yuvan shankar of final year EIE got placed in GODB TECH, Chennai.
20. R.Deepak kumar of final year EIE got placed in Tessolve Semiconductor Pvt Ltd, Coimbatore.
21. N.Deena Thayalan and N.Velmurugan of final year EIE got placed in SJEAS Chennai.

Programme attended by Students

1. R.Ajeeth Kumar of IV year has participated in the Webinar on "Financial Empowerment Through Wealth Creation" organized by PG & Research Development of Commerce and IQAC in Collaboration with AMFI, at SWAMI DAYANANDA COLLEGE OF ARTS AND SCIENCE on 11.10.2021.
2. G.Alaguraj of IV year has participated in the Two Day Seminar on "Intellectual Property Rights and Smart Ways for Writing a Successful Research Grant Proporsal" organized by Department of Computer Science Engineering at Karpagam College of Engineering, Coimbatore. Conducted from 09.12.2021 to 10.12.2021.
3. N.Deenathayalan of IV year has participated in the Webinar on "Cyber Security and Python Development" organized by SHAPEAI, at Erode Sengunthar engineering College on 18.10.2021.
4. S.Kirubakaran of IV year has participated in the Webinar on "Financial Empowerment Through Wealth Creation" organized by PG & Research Development of Commerce and IQAC in Collaboration with AMFI, at SWAMI DAYANANDA COLLEGE OF ARTS AND SCIENCE on 11.10.2021.
5. R.Merlinpreeta of IV year has completed a course in "Programming Fundamentals using Python – part 1" organized by Infosys Springboard, at Erode Sengunthar engineering College on 15.12.2021.
6. M.Rakesh of IV year has completed a course in "Programming Fundamentals using Python – part 1" organized by Infosys Springboard, at Erode Sengunthar engineering College on 15.12.2021.
7. B.Ramya of IV year has completed a course in "Programming Fundamentals using Python – part 1" organized by Infosys Springboard, at Erode Sengunthar engineering College on 15.12.2021.
8. D.Subalakshmi of IV year has completed a course in "Programming Fundamentals using Python – part 1" organized by Infosys Springboard, at Erode Sengunthar engineering College on 15.12.2021.
9. P.Venugopal of IV year has completed a course in "Programming Fundamentals using Python – part 1" organized by Infosys Springboard, at Erode Sengunthar engineering College on 15.12.2021.
10. A.Anbumaini,C.Samvishwa,L.Immanuvel, of III year EIE has participated in the National webinar on,"Strategy for Managing Personal Finance" organized by AKAL College of Economics Commerce and Management eternal University in collaboration with Association of Mutual Funds of India on 25.10.2021.
11. L.Immanuvel,C.Samvishwa,P.Bhuvaneshwari,J.Saranya, S.K.Shakipraba, S.Ranjithkumar of III year EIE has participated in the National webinar on,"Essential of Personal Finance Management" organized by Tagore University in collaboration with Association of Mutual Funds of India on 22.10.2021.
12. L.Immanuvel,C.Samvishwa,J.Saranya, A.Anbumaini of III year EIE has participated in the National webinar on "Strategy for Managing Personal Finance" organized by S.S.D Women's

Institute of Technology in collaboration with Association of Mutual Funds of India on 24.11.2021.

13. L.Immanuvel, A.Anbumaini of III year EIE has participated in the Technical Session on Internet Of Things(IOT) conducted through the e-Yantra Lab Setup Initiative(eLsSI) on 12.10.2021
14. L.Immanuvel,C.Samvishwa of III year EIE has participated in the "One Day National Webinar on Financial Empowerment Through Wealth Creation" organized by PG &Research Department of Commerce and IQAC in collaboration with Association of Mutual Funds of India on 11.10.2021.
15. A.Anbumaini,L.Immanuvel,P.Bhuvaneshwari,C.Samvishwa, A.Ajaydeva,S.Ranjithkumar of III year EIE has Completed of "Electronics and Instrumentation Online Quiz" organized by SESHASAYEE Institute Of Tehnology,Triuchirappalli on 20.9.2020
16. P.Bhuvaneshwari,L.Immanuvel,C.Samvishwa,J.Saranya,S.K.Shakipraba,S.Ranjithkumar, A.Ajaydeva, A.Anbumaini,R.Bavithran,S.Mathivanan,K.Vanaroja,S.Nandhini of III year EIE has completed the course "Introduction to Python "on Infosys/Springboard on 11.12.2021.
17. L.Immanuvel,C.Samvishwa, A.Anbumaini of III year EIE has completed the course "Programming Fundamentals Using Python "on Infosys /Springboard on 11.12.2021.

Sports Achievement

1. B.Ragavendran has participated in TAMILNADU YOUTH SPORTS COUNCIL (TYSC) – 2nd State Championship -2021, 200 meters running event, conducted at Karur on 10.10.2021.

FACULTY ACTIVITIES AND ACHIEVEMENTS

Programme attended by Faculty Members

S.No.	Title	Duration	Institution	Faculty Name
Seminar / Webinar / Workshop				
1.	Programming fundamentals using Python – Part 1	23.12.2021	Infosys Springboard	P.Senthil Kumar
2.	Webinar on technologies shaping future automation	15.06.2020.to 19.06.2020	Kumaraguru College of technology	E.Sathish
3.	Webinar on Scope and Future of Solar energy as a sustainable source	13.05.2021	Karpagam College of Engineering	E.Sathish
4.	A Three day webinar on IoT with Artificial Intelligence	27.05.2021 to 29.05.2021	Sir C R Reddy College of Engineering, Eluru.	E.Sathish
5.	Programming Fundamentals using Python - Part 1	23.12.2021	Infosys springboard	E.Sathish
6.	Webinar on technologies shaping future automation	15.06.2020.to 19.06.2020	Kumaraguru College of technology	T.Maris Murugan
7.	Webinar on Scope and Future of Solar energy as a sustainable source	13.05.2021	Karpagam College of Engineering	T.Maris Murugan
8.	A Three day webinar on IoT with Artificial Intelligence	27.05.2021 to 29.05.2021	Sir C R Reddy College of Engineering, Eluru.	T.Maris Murugan
9.	Webinar on MatLab Programming	19.10.2020 to 23.10.2020	AGIMUS Technologies, Bangalore	T.Maris Murugan
10.	Online certification program on Introduction	17.12.2021 to 17.12.2021	MSME	T.Maris Murugan

	to MATLAB and Simulink			
11.	Programming Fundamentals using Python - Part 1	23.12.2021	Infosys springboard	T.Maris Murugan
12.	Two days workshop on “ Role of internal academic and administrative audit(IAAA) in higher education institute(HEI)”	02.12.2020 & 03.12.2020	Adhiyamaan College Of Engineering	G.Revathy
13.	Five days online certification program on “ Introduction to MATLAB & Simulink”	13.12.2021- 17.12.2021	MSME	G.Revathy
14.	One day national webinar on “Financial empowerment through wealth creation”	11.10.2021	Swami Dayanandha College Of Arts And Science	G.Revathy
15.	Programming Fundamentals using Python - Part 1	23.12.2021	Infosys springboard	G.Revathy
16.	“ANSYS Mechanical and CFD Capabilities”	06.06.2020 To 08.06.2020 (3 Days)	Vinayaka Mission’s Research Foundation , Salem	P.Suresh Kumar
17.	“Introduction to MATLAB and Simulink”	13.12.2021 To 17.12.2021 (5 Days)	Agimus Technologies Private Limited	P.Suresh Kumar
18.	“Programming Fundamentals using Python”	23.12.2021	Infosys	P.Suresh Kumar
19.	ANSYS Mechanical and CFD Capabilities	06 June 2020	Aarupadai Veedu Institute of Technology,	Dr. M. N. Saravana Kumar

			Salem, TN	
20.	RF Domain using ANSYS HFSS	12 th June 2020	Amrita College of Engineering and Technology, Kanyakumari, TN	Dr. M. N. Saravana Kumar
STTP / FDP				
1.	Opportunities in Smart Grid with Integration of Electrical Vehicles	08.10.2021 To 12.10.2021	Vemu Institute of Technology, Chittoor.	P.Senthil Kumar
2.	One week virtual Faculty Development Program on Research Challenges, Opportunities in Smart Grid with Integration of Electrical Vehicles	08.10.2021 to 12.10.2021	VEMU Institute of Technology, P. Kothakota, Chittoor.	E.Sathish
3.	One-week virtual Faculty Development Program on Research Challenges, Opportunities in Smart Grid with Integration of Electrical Vehicles	08.10.2021 to 12.10.2021	VEMU Institute of Technology, P. Kothakota, Chittoor.	T.Maris Murugan
4.	AICTE sponsored one week STTP on "Research Aspects On Deep Learning In Image And Video Processing-1"	01.12.2020- 07.12.2020	Vellammal Institute Of Technology	T.Maris Murugan
5.	Internal Quality Assurance Cell(IQAC)In Association With Department Of Information Technology sponsored FDP on "Joy of learning virtual Lab"	05.01.2021	Adhiyamaan College Of Engineering	G.Revathy
6.	Two days FDP on "Deep	29.06.2021&	Karpagam College	G.Revathy

	Learning On Computer Vision”	30.06.2021	Of Engineering	
7.	Five days FDP on “Techniques In Research And Innovations(TRI2021)”	05.07.2021-09.07.2021	Karpagam College Of Engineering	G.Revathy
8.	AICTE sponsored one week STTP on “Hybrid and Electrical Vehicles: Development, Integration and Challenges”	20.09.2021-25.09.2021	Erode Sengunthar Engineering College	G.Revathy
9.	All Indian Council for Technical Education, New Delhi AQIS Sponsored Two Weeks Faculty Development Programon “Introduction to Smart Grid (ITSG-2020) Phase-I”	23.11.2020 24.12.2020	K.D.K. College of Engineering Nagpur	G.Revathy
10.	AICTE sponsored one week STTP on “Research Aspects On Deep Learning In Image And Video Processing-1”	01.12.2020-07.12.2020	Vellammal Institute Of Technology	G.Revathy
11.	AICTE sponsored one week STTP on “Application of article intelligence technique in overcoming the challenges of healthcare industry”	07.12.2020-12.12.2020	Knowledge Of Institute Of Technology	G.Revathy
12.	TEQIIP sponsored One	15.12.2020-	Jaipur Engineering	G.Revathy

	week FDP on "Stress And Anger Management"	19.12.2020	College And Research Centre, Jaipur	
13.	"Introduction to Smart Grid (ITSG-2020) Phase-II"	07.12.2020 To 18.12.2020 (14 Days)	K.D.K. College of Engineering, Nagpur- 440 024 (Maharashtra.)	P.Suresh Kumar
14.	"Research Challenges, Opportunities in Smart Grid with Integration of Electrical Vehicles" (RCOSGIEV-2021)	08-10-2021 To 12-10-2021 (5 Days)	VEMU Institute of Technology , Chittoor (AP)	P.Suresh Kumar
15.	Faculty Program on NBA	05 December 2020	Bharati Vidyapeeth College of Engineering, Navi Mumbai, India	Dr. M. N. Saravana Kumar
16.	Open Source Tools for Cybersecurity	23.12.2021 to 24.12.2021 Two Days	Karpagam College of Engineering, Coimbatore, TN, India	Dr. M. N. Saravana Kumar
17.	Trending Technologies in Computer science	18th Oct. 2021 to 22nd Oct. 2021 (Five Days)	Dr. M.G.R. Educational and Research Institute, Chennai	Dr. M. N. Saravana Kumar

Conference

1.	Intelligent Irrigation using IoT	09.04.2021 & 10.04.2021	Indra Ganesan College of Engineering	E.Sathish
2.	Solar Powered Autonomous Robotic Car using Surveillance	18.06.2021 & 19.06.2021	Malla Reddy College of Engineering & Technology, Hyderabad.	E.Sathish
3.	Intelligent Irrigation using IoT	09.04.2021 & 10.04.2021	Indra Ganesan College of Engineering	T.Maris Murugan
4.	Solar Powered Autonomous Robotic Car using Surveillance	18.06.2021 & 19.06.2021	Malla Reddy College of Engineering &	T.Maris Murugan

			Technology, Hyderabad.	
5.	PLC based smart farming system with SCADA	10.12.2020- 11.12.2020	Advances And Development In Electrical And Electronics Engineering (ICADEE2020) at Karpagam College Of Engineering	G.Revathy
6.	"Embedded Based Oil Industry Process Monitoring Systems and Security System"	27.12.2020	Jagannath Institute of Technology, Chennai	P.Suresh Kumar
7.	Design and implementation of coal mine safety system using Arduino	03.07.2020	National Conference On Artificial Intelligence for IoT and Power Grid Network's (NCAIIPGN – 2020), 03 July 2020, SRM TRP Engineering College, Trichy, Tamil Nadu, India.	Dr. M. N. Saravana Kumar
8.	An Automated Fault Identification in Switchyard station	29.9.2020 & 30.9. 2020	International Conference On Recent Evolution & Adoptable Technologies in Engineering (ICREATE – 2020), 29 & 30 Sept. 2020, Erode Sengunthar Engineering College, Erode, Tamil Nadu, India.	Dr. M. N. Saravana Kumar

Paper publication by staff members

Sl. No.	Title	Author(s)	Journal/Conference Details/Publisher	Level (International National, Text Reference, etc.)
1.	A Comparative Study for Fault Detection and Classification in Textile Web Materials	Mr.E.Sathish, Ms.G.Revathy	Journal of Xi'an University of Architecture & Technology, ISSN No : 1006-7930, Volume XII, Issue XII, 2020	
2.	An Agriculture Irrigation Management system Based on the internet of Things with MQTT Protocol	Mr.E.Sathish, Dr.V.Premchandran, Mr.M.Karthikumar	IOP Conference Series: Materials Science and Engineering (ICSSS)	SCOPUS
3.	Development of smart accident identification and detection system	Mr.E.Sathish	Elsevier - Materials Today: Proceedings, January 2021.	SCOPUS
4.	Design and development of multi controlled smart bike	Mr.E.Sathish	Elsevier - Materials Today: Proceedings, January 2021.	SCOPUS
5.	Intelligent Irrigation using IoT	Mr.E.Sathish	International conference on Contemporary on revolutionary techniques in Science and Engineering	Indra Ganesan College of Engineering
6.	Solar Powered Autonomous Robotic Car using Surveillance	Mr.E.Sathish, Dr.V.Premchandran, Mr.M.Karthikkumar	Journal - Springer - Smart Innovation, Systems and Technologies	SCOPUS
7.	Energy Utilization and Prediction using ML for Improving EMS system: A study Approach	Mr.E.Sathish, Dr.R.Muthukumar, Mr.E.Immanuel Bright	Journal - Turkish Online Journal of Qualitative Inquiry, August 2021.	SCOPUS
8.	Solar Powered Autonomous Robotic Car using Surveillance	Mr.E.Sathish, Dr.V.Premchandran, Mr.M.Karthikkumar	Conference - Intelligent Manufacturing And Energy Sustainability	Malla Reddy College of Engineering & Technology, Hyderabad.
9.	Design and development of smart dustbin	Ms.G.Revathy	Materials Today: Proceedings, February 2021.	-

10.	PLC based smart framing system with SCADA	Ms.G.Revathy	IEEE Conference on Advances and developments in Electrical and Electronics Engineering, December 2020.	National
11.	Electromechanical Strength Analysis For Rectangular Rails	Mr. P.Suresh Kumar & Dr. M. N. Saravana Kumar	Journal of Xi'an University of Architecture & Technology, ISSN NO.:1006-7930,2020	International
12.	Mathematical Modeling and optimization of hyper node analysis	Dr. M. N. Saravana Kumar	AIP Conference Proceedings, ISSN 0094-243X	International
13.	Smartphone-based electrochemical sensor for assessing COVID-19 infected patients	Dr. M. N. Saravana Kumar	International Journal of Pervasive Computing and Communications - Emerald	International
14.	Two-Tier Security Mechanism for Malignant detection in wireless sensor networks	Dr. M. N. Saravana Kumar	European Journal of Molecular and clinical Medicines, ISSN 2515-8260	International
15.	Congestion free channel allocation for high traffic using MAC in WSN	Dr. M. N. Saravana Kumar	Information Technology in Industry, ISSN 2204-0595	International
16.	Machine Learning and Applications	Dr. M. N. Saravana Kumar	Book Chapter DIPTI Press (OPC) Private Limited, Chapter 7, pp. 282-288	International

17.	Data Security in Internet of Things based RFID and WSN Systems applications	Dr. M. N. Saravana Kumar	Book Chapter CRC Press, Taylor & Francis Group, Chapter 9, pp. 107-114.	International
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Faculty patent details

S.No	Patent office detail	Application number	Date of filing	Published date	Title of the invention	Author Name
1.	(12) PATENT APPLICATION PUBLICATION (22) INDIA	202141003615 A	27.01.2021	05.02.2021	Design and Development of Smart Security and Surveillance System	E.Sathish
2.	(12) PATENT APPLICATION PUBLICATION (19) INDIA	20214100556 4 A	09.2.2021	12.2.2021	Design and Development of Mishap detection and astute action smart system using IoT	G.Revathy
3.	IP India Patent Office - Chennai	20204102588 2 A	19/06/2020	03/07/2020	"Secured Protection Device for Safety during Overload Condition"	P.Suresh Kumar
4.	IP India, Chennai	202041025882	19 June 2020	03 July 2020	Secured Protection device for safety during overload conditions	Dr. M. N. Saravana Kumar
5.	IP India,	202041027054	25 June	10 July	Energy	Dr. M. N.

	Chennai		2020	2020	Efficient Street Light system using arduino Uno and WSN for smart city	Saravana Kumar
6.	IP India, Chennai	202041027956	01 July 2020	10 July 2020	An Optimal method for fault detection of transmission line with loss reduction	Dr. M. N. Saravana Kumar

MoU Details

S.No.	Company Name	Academic Year
1.	SJAES, Chennai	2021-2022

