



SDG 9 – Industry Innovation & Infrastructure

Building Resilient Infrastructure, Promoting Inclusive and Sustainable Industrialization, and Fostering Innovation

Preamble

Sustainable Development Goal 9 (SDG 9) aims towards fostering sustainable industrialization by promoting innovation, and building a resilient infrastructure. The significance of SDG9 lies in its potential to facilitate inclusive economic growth, promote sustainable development and foster global competitiveness. SDG 9 plays a pivotal role in addressing challenges posed by natural disasters, climate change, and rapid urbanization. It emphasizes the development of reliable and modernized infrastructure that not only facilitates economic growth but also ensures the well-being and safety of communities. By promoting inclusive and sustainable industrialization, this goal encourages the transformation of economies through adoption of environment-friendly practices by creation of decent job opportunities, thereby reducing inequalities and promoting social inclusion.

Institutional Measures

The implementation of SDG9 calls for collaboration, knowledge sharing, and technological transfer among different disciplines. Embracing sustainable practices, implementing research and development, and promoting education and skill-sets are crucial steps towards realizing the objectives of SDG 9. KITS has been consistently and diligently carrying out sustainability oriented activities with regard to innovation on several fronts. These include innovative teaching methods to match contemporary requirements, research leading to new processes, products, patents, and incubation leading to spinoffs as well as commercialization.

Innovation Infrastructure

Built on its vision, Karunya aims to provide the required ambience, infrastructure and policies in order to facilitate the students to find solutions to human problems in the thrust areas relating to water, food, healthcare and sustainable energy through scientific, social and technological research.



Technology Missions

The vision of KITS is being accomplished through interdisciplinary research involving 25 Technology Missions in which faculty members and students implement research that solves societal problems. These Missions lay emphasis on modern technologies relevant to industry and development. Of the 25 technology missions identified, six are in the field of Agriculture and Food Processing Engineering, that include such as, Smart Technology for Precision Farming, Technology Mission for Food Security, Indigenous and Herbal Medicine, Millets for Nutrition and Drone Technology for Agriculture. These Missions are driven by the Divisions of Agriculture and Food Processing Engineering of KITS. The Technology Missions that deal with Water Treatment and Desalination, and Wetland Conservation, implemented by the Water Institute of KITS. Four

technology missions deal with the application of emerging tools in the area of water and agriculture, that include small satellites, natural isotopes, remote sensing and GIS, which are being implemented by the Divisions of Agriculture, Aerospace, Chemistry and Civil Engineering.

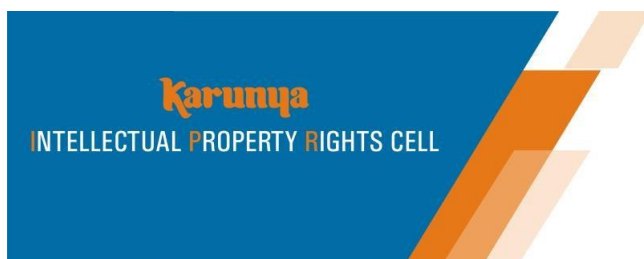
There are four technology missions that deal exclusively with the healthcare, namely vaccinology for Viral Diseases, Stem Cell Research, Nanotechnology for Healthcare and Medical Devices. These Missions are led by the Divisions of Biotechnology and Biomedical Engineering. The three technology missions that deal with energy and manufacturing are Green Energy, Green and Sustainable Manufacturing, and 3-D Printing and Additive Manufacturing.

Two Missions that deal with habitat, namely, Smart Intelligent Buildings, and Smart City are implemented Civil, Mechanical and EEE Divisions. The remaining missions deal with modern tools and their applications, such as Data Analytics and Block Chain, Cyber Security Knowledge, Machine Learning Technologies for Societal Problems, Smart Vehicle Mission, and Robotics in everyday life. These Mission are implemented by the Divisions of Computer Science & Engineering and Robotics & Engineering.

Each of the above Missions enroll faculty and students with targets that are set for two years. Papers are published in these areas, products developed, patents filed and startups initiated. The Mission mode functioning enables result-oriented and time bound approach among faculty and students.

KITS R&C POLICY: <https://karunya.edu/research/>

Patents citing University Research



KITS encourages, facilitates, promotes and safeguards scientific investigations and research carried out through its IPR policy, which provides guidelines for generating patents.

Objectives of IPR Policy

- To promote Intellectual Property awareness among students, faculty members, non-teaching staff and researchers.
- To organize short term training programmes, seminars, workshops and conferences.
- To assist researchers to file patents of products processes and inventions based on the research and development carried out by them.
- To assist inventors in following legal procedures related to commercialization and technology transfer.
- To promote IPR awareness among MSME (Micro, Small and Medium Enterprises) in and around Coimbatore region.

KITS-IPR Policy: <https://karunya.edu/ipr>

University Spinoffs

Incubation serves as a cornerstone for fostering a culture of innovation, entrepreneurship and interdisciplinary collaboration. KITS has developed its policy on Innovation, Incubation and Entrepreneurship, with the major objective of creating an ideal ecosystem for innovation-incubation- entrepreneurship in KITS, emanating from its academic and research programmes, leading to an innovation culture contributing to new products and processes of social, economic and technological value to the society. In order to implement this, KITS has established the Karunya Incubation Foundation (KIF), as a not-for-profit company under section 8 of The Companies Act, 2013. Under the ambit of KIF, the Institute has setup the Karunya Technology Business Incubation Park (K-TBIP), for nurturing pre-incubation, incubation and start-up ecosystem within the campus, which has successfully incubated 51 projects. The success of

university spin-offs in KITS is a testament to the institution's commitment to fostering innovation, entrepreneurship, and knowledge transfer. By providing a supportive environment, mentorship, and access to resources, KTBIP is playing a crucial role in shaping the future of entrepreneurship in the region. It not only enables students and researchers realize their dreams but also contributes to the growth and development of the region and the nation.

KITS Policy on Innovation, Incubation and Entrepreneurship:

<https://www.karunya.edu/ktbip/policy>

Research Publications

Sl. No	Title	Authors	Year	Scopus Source title	Volume	Issue
1	Inconsistencies of e-waste management in developing nations – Facts and plausible solutions	Gollakota, A.R.K. Gautam, S. Shu, C.-M.	2020	Journal of Environmental Management	261	-
2	Lignocellulosic bioethanol production: Prospects of emerging membrane technologies to improve the process - A critical review	Dey, P. Pal, P. Kevin, J.D. Das, D.B.	2020	Reviews in Chemical Engineering	36	3
3	Experimental investigation and optimization of process parameters in EDM of aluminium metal matrix composites	Palanisamy, D. Devaraju, A. Manikandan, N. Balasubramanian, K. Arulkirubakaran, D.	2020	Materials Today: Proceedings	22	-
4	Temporary reduction in air pollution due to anthropogenic activity switch-off during COVID-19 lockdown in northern parts of India	Gautam, A.S. Dilwaliya, N.K. Srivastava, A. Kumar, S. Baudh, K. Siingh, D. Shah, M.A. Singh, K. Gautam, S.	2021	Environment, Development and Sustainability	23	6

5	Innovative potential of additive friction stir deposition among current laser based metal additive manufacturing processes: A review	Gopan, V. Leo Dev Wins, K. Surendran, A.	2021	CIRP Journal of Manufacturing Science and Technology	32	-
6	Progress in the electrochemical reduction of CO ₂ to formic acid: A review on current trends and future prospects	Duarah, P. Haldar, D. Yadav, V.S.K. Purkait, M.K.	2021	Journal of Environmental Chemical Engineering	9	6
7	Post-fire damage assessment and capacity based modeling of concrete exposed to elevated temperature	Thanaraj, D.P. Anand, N. Prince Arulraj, G. Zalok, E.	2020	International Journal of Damage Mechanics	29	5
8	An efficient clustering-based anonymization scheme for privacy-preserving data collection in IoT based healthcare services	Onesimu, J.A. Karthikeyan, J. Sei, Y.	2021	Peer-to-Peer Networking and Applications	14	3
9	Excellent Photocatalytic degradation of Methylene Blue, Rhodamine B and Methyl Orange dyes by Ag-ZnO nanocomposite under natural sunlight irradiation	R., S. Jebasingh, J.A. S., M.V. Stanley, P.K. Ponmani, P. Shekinah, M.E. Vasanthi, J.	2021	Optik	231	-
10	Advanced technologies on the sustainable approaches for conversion of organic waste to valuable bioproducts: Emerging circular bioeconomy perspective	Ashokkumar, V. Flora, G. Venkatkarthick, R. SenthilKannan, K. Kuppam, C. Mary Stephy, G. Kamyab, H. Chen, W.-H. Thomas, J. Ngamcharussrivichai, C.	2022	Fuel	324	-
11	Qualitative and quantitative analyses of impact of COVID-19 on sustainable development	Bherwani, H. Gautam, S. Gupta, A.	2021	International Journal of Environmental Science	18	4

	goals (SDGs) in Indian subcontinent with a focus on air quality			and Technology		
12	Exemplification of sustainable sodium silicate waste sediments as coarse aggregates in the performance evaluation of geopolymer concrete	Kanagaraj, B. Anand, N. Johnson Alengaram, U. Samuvel Raj, R. Kiran, T.	2022	Construction and Building Materials	330	-
13	The bond strength of self-compacting concrete exposed to elevated temperature	Mathews, M.E. Anand, N. Kodur, V.K.R. Arulraj, P.	2021	Proceedings of the Institution of Civil Engineers: Structures and Buildings	174	9
14	Development of neural network models for wire electrical discharge machining of Haste alloy	Palanisamy, D. Manikandan, N. Ramesh, R. Devaraju, A. ArulKirubakaran, D.	2021	Materials Today: Proceedings	39	-
15	Performance evaluation of sodium silicate waste as a replacement for conventional sand in geopolymer concrete	Kanagaraj, B. Anand, N. Raj R, S. Lubloy, E.	2022	Journal of Cleaner Production	375	-
16	Multi objective optimization of wire-electrical discharge machining of stellite using Taguchi – Grey approach	Ujjaini Kumar, S. Manikandan, N. Binoj, J.S. Thejasree, P. Shajahan, S. Arulkirubakaran, D.	2021	Materials Today: Proceedings	39	-
17	Investigation and optimization of parameters for hard turning of OHNS steel	James Dhillip, J.D. Jeevan, J. Arulkirubakaran, D. Ramesh, M.	2020	Materials and Manufacturing Processes	35	10
18	Comprehensive Assessment of Electric Vehicle Development, Deployment, and Policy Initiatives to Reduce GHG Emissions:	Paul Sathiyam, S. Benin Pratap, C. Stonier, A.A. Peter, G. Sherine, A.	2022	IEEE Access	10	-

	Opportunities and Challenges	Praghash, K. Ganji, V.				
19	Investigation on engineering properties and micro-structure characteristics of low strength and high strength geopolymer composites subjected to standard temperature exposure	Kanagaraj, B. Anand, N. Andrushia, A.D. Lubloy, E.	2022	Case Studies in Construction Materials	17	-
20	Understanding the management of household food waste and its engineering for sustainable valorization- A state-of-the-art review	Haldar, D. Shabbirahmed, A.M. Singhanian, R.R. Chen, C.-W. Dong, C.-D. Ponnusamy, V.K. Patel, A.K.	2022	Bioresource Technology	358	-
21	An improved enzymatic pre-hydrolysis strategy for efficient bioconversion of industrial pulp and paper sludge waste to bioethanol using a semi-simultaneous saccharification and fermentation process	Dey, P. Rangarajan, V. Nayak, J. Das, D.B. Wood, S.B.	2021	Fuel	294	-
22	Kinetic modelling and process engineering of phenolics microbial and enzymatic biodegradation: A current outlook and challenges	Priyadarshini, A. Sahoo, M.M. Raut, P.R. Mahanty, B. Sahoo, N.K.	2021	Journal of Water Process Engineering	44	-
23	A Review of Challenges and Opportunities in Additive Manufacturing	Raju, R. Manikandan, N. Palanisamy, D. Arulkirubakaran, D. Binoj, J.S. Thejasree, P. Ahilan, C.	2022	Lecture Notes in Mechanical Engineering	-	-

24	Sugarcane bagasse into value-added products: a review	Shabbirahmed, A.M. Haldar, D. Dey, P. Patel, A.K. Singhania, R.R. Dong, C.-D. Purkait, M.K.	2022	Environmental Science and Pollution Research	-	-
25	Optimization and performance evaluation of PLA polymer material in situ carbon particles on structural properties	Raju, R. Manikandan, N. Binoj, J.S. Palanisamy, D. Arulkirubakaran, D. Thejasree, P. Kalyan, A.P. Reddy, G.S.	2021	Materials Today: Proceedings	39	-
26	Enrichment of material subtraction rate on Eglin steel using electrical discharge machining process through modification of electrical circuits	Sheeba Rani, S. Kamatchi Sundari, V. Subha Hency Jose, P. Sivaranjani, S. Stalin, B. Pritima, D.	2020	Materials Today: Proceedings	33	-
27	Sinapic acid safeguards cardiac mitochondria from damage in isoproterenol-induced myocardial infarcted rats	Stanely Mainzen Prince, P. Dey, P. Roy, S.J.	2020	Journal of Biochemical and Molecular Toxicology	34	10
28	Estimation of fuel properties and characterization of hemp biodiesel using spectrometric techniques	John, C.B. Solamalai, A.R. Jambulingam, R. Balakrishnan, D.	2020	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	-	-
29	Predictive Models for Wire Spark Erosion Machining of AA 7075 Alloy Using Multiple Regression Analysis	Manikandan, N. Binoj, J.S. Krishnamachary, P.C. Thejasree, P. Arul Kirubakaran, D.	2021	Lecture Notes in Mechanical Engineering	23	-

30	Investigation on improving the residual mechanical properties of reinforcement steel and bond strength of concrete exposed to elevated temperature	Kiran, T. Anand, N. Mathews, M.E. Kanagaraj, B. Andrushia, A.D. Lubloy, E. G, J.	2022	Case Studies in Construction Materials	16	-
31	Prediction of Performance Measures Using Multiple Regression Analysis for Wire Electrical Discharge Machining of Titanium Alloy	Manikandan, N. Varaprasad, K.C. Thejasree, P. Palanisamy, D. Arulkirubakaran, D. Raju, R. Badrinath, K.	2022	Lecture Notes in Mechanical Engineering	-	-
32	Performance evaluation on engineering properties of sodium silicate binder as a precursor material for the development of cement-free concrete	Kanagaraj, B. Anand, N. Samuvel Raj, R. Lubloy, E.	2022	Developments in the Built Environment	12	-
33	Coagulation influencing parameters investigation on textile industry discharge using Strychnos potatorum seed powders	Gautam, S. Arora, A.S. Singh, A.K. Ekka, P. Daniel, H. Gokul, B. Toppo, S. Chockalingam, P. Kumar, H. Lyngdoh, J.F.	2021	Environment, Development and Sustainability	23	4
34	Implementation of academia 4.0 for engineering college education	Rekh, S. Chandy, A.	2020	Procedia Computer Science	172	-
35	Privacy Preserving Attribute-Focused Anonymization Scheme for Healthcare Data Publishing	Onesimu, J.A. Karthikeyan, J. Eunice, J. Pomplun, M. Dang, H.	2022	IEEE Access	10	-
36	Visible light sensitive hexagonal boron nitride (hBN) decorated Fe ₂ O ₃ photocatalyst for the degradation of methylene blue	Shenoy, M.R. Ayyasamy, S. Bhojan, V. Swaminathan, R. Raju, N. Senthil Kumar,	2021	Journal of Materials Science: Materials in Electronics	32	4

		P. Sasikumar, M. Kadarkarai, G. Tamilarasan, S. Thangavelu, S. J, S. Reddy, M.V.				
37	Influence of mineral admixtures on the residual mechanical properties and durability characteristics of self-compacting concrete subjected to high temperature	Kiran, T. Mathews, M.E. N, A. Alengaram, U.J. Andrushia, A.D.	2022	Australian Journal of Civil Engineering	20	2
38	Bioelectricity production using microbial fuel cell—a review	Kasipandian, K. Saigeetha, S. Samrot, A.V. Abirami, S. Emilin Renitta, R. Dhiva, S.	2021	Biointerface Research in Applied Chemistry	11	2
39	Secure IoT Healthcare Architecture with Deep Learning-Based Access Control System	Thilagam, K. Beno, A. Vanitha Lakshmi, M. Wilfred, C.B. George, S.M. Karthikeyan, M. Peroumal, V. Ramesh, C. Karunakaran, P.	2022	Journal of Nanomaterial s	2022	-
40	Analysis of hybrid aluminium composite material reinforced with Ti and NbC nanoparticles processed through stir casting	Joslin Vijaya, D. Pradeep Kumar, J. Robinson Smart, D.S.	2021	Materials Today: Proceedings	51	-
41	A Review on the Feasibility of Deployment of Renewable Energy Sources for Electric Vehicles under Smart Grid Environment	Femy, P.H. Jayakumar, J.	2021	International Journal of Electrical and Electronics Research	9	3
42	Digital twin technology for “smart manufacturing”	Evangeline, P. Anandhakumar	2020	Advances in Computers	117	1

43	Effect of protective coating on axial resistance and residual capacity of self-compacting concrete columns exposed to standard fire	Ealiyas Mathews, M. Kiran, T. Anand, N. Lubloy, E. Naser, M.Z. Prince Arulraj, G.	2022	Engineering Structures	264	-
44	The recent trends of EDM applications and its relevance in the machining of aluminium MMCs: A comprehensive review	Bindya Devi, M. Kumar Birru, A. Kumar Bannaravuri, P.	2021	Materials Today: Proceedings	47	-
45	Strength and microstructure behaviour of high calcium fly ash based sustainable geo polymer concrete	Vijaya Prasad, B. Paul Daniel, A.P. Anand, N. Yadav, S.K.	2022	Journal of Engineering, Design and Technology	20	2
46	Drought assessment in paddy rice fields using remote sensing technology towards achieving food security and SDG2	Shams Esfandabadi, H. Ghamary Asl, M. Shams Esfandabadi, Z. Gautam, S. Ranjbari, M.	2022	British Food Journal	124	12
47	UAV-CPSs as a test bed for new technologies and a primer to industry 5.0	Monteiro, A.C.B. Franca, R.P. Estrela, V.V. Fernandes, S.R. Khelassi, A. Jenice Aroma, R. Raimond, K. Iano, Y. Arshaghi, A.	2020	Imaging and Sensing for Unmanned Aircraft Systems: Deployment and Applications	-	-
48	Current perspective on improved fermentative production and purification of fungal cellulases for successful biorefinery applications: a brief review	Dey, P. Rangarajan, V. Singh, J. Nayak, J. Dilip, K.J.	2022	Biomass Conversion and Biorefinery	12	3
49	Effect of elevated temperature on interfacial shear transfer	Mathews, M.E. Anand, N.	2021	Case Studies in	15	-

	capacity of self-compacting concrete	Lublóy, É. Kiran, T.		Construction Materials		
50	Cutting parameter optimization of CNC dry milling process of AISI 410 and 420 grade MSS	George, P. Philip Selvaraj, D.	2020	Materials Today: Proceedings	42	-
51	Performance evaluation of textured inserts with MQL in machining of pH stainless steel	Palanisamy, D. Jayasurya, S. Manikandan, N. ArulKirubakaran, D. Divakar, V.	2021	Materials Today: Proceedings	39	-
52	Study of Numerous Resins Used in Polymer Matrix Composite Materials	Ramakrishnan, T. Mohan Gift, M.D. Chitradevi, S. Jegan, R. Subha Hency Jose, P. Nagaraja, H.N. Sharma, R. Selvakumar, P. Hailegiorgis, S.M.	2022	Advances in Materials Science and Engineering	2022	-
53	Addressing the relevance of COVID–19 pandemic in nature and human socio-economic fate	Thapliyal, J. Bhattacharyya, M. Prakash, S. Patni, B. Gautam, S. Gautam, A.S.	2022	Stochastic Environmental Research and Risk Assessment	36	10
54	Rheological and mechanical characterization of self-compacting concrete with utilization of supplementary sustainable cementitious materials	Ealiyas Mathews, M. Anand, N. Prince Arulraj, G. Kiran, T.	2020	IOP Conference Series: Earth and Environmental Science	491	1
55	Machinability analysis and optimization of wire-EDM textured conventional tungsten carbide inserts in	Palanisamy, D. Manikandan, N. Ramesh, R. Kathirvelan, M. Arulkirubakaran, D.	2021	Materials Today: Proceedings	39	-

	machining of 17–4 PH stainless steel					
56	Influence of fiber on shear behavior of concrete exposed to elevated temperature	Varghese, A. Anand, N. Arulraj, P.G.	2020	International Journal of Engineering, Transactions A: Basics	33	10
57	Optical Grating Techniques for MEMS-Based Spectrometer-A Review	Ravindran, A. Nirmal, D. Prajoon, P. Gracia Nirmala Rani, D.	2021	IEEE Sensors Journal	21	5
58	Development and strength assessment of sustainable high strength fiber reinforced concrete	Jayakumar, G. Mathews, M.E. Kiran, T. Yadav, B.S.K. Kanagaraj, B. Anand, N.	2021	Materials Today: Proceedings	49	-
59	Luminous power improvement in InGaN V-Shaped Quantum Well LED using CSG on SiC Substrate	Manikandan, M. Nirmal, D. Prajoon, P. Dhivyasri, G. Chandran, V.	2020	IOP Conference Series: Materials Science and Engineering	906	1
60	Imaging and sensing for unmanned aircraft systems. volume 1: Control and performance	Estrela, V.V. Hemanth, J. Saotome, O. Nikolakopoulos, G. Sabatini, R.	2020	Imaging and Sensing for Unmanned Aircraft Systems: Control and Performance	-	-
61	Post-fire behaviour and improving the performance of hot rolled open sections subjected to standard fire exposure	Kiran, T. Anand, N. Mathews, M.E. Andrushia, A.D. Walls, R. Kanagaraj, B. lubloy, E.	2022	Case Studies in Construction Materials	16	-
62	Comparison analysis of IoT based industrial automation and improvement of different processes - Review	Sundari, V.K. Nithyashri, J. Kuzhaloli, S. Subburaj, J. Vijayakumar, P. Jose, P.S.H.	2021	Materials Today: Proceedings	45	-
63	Experimental investigation on surface integrity during	Palanisamy, D. Devaraju, A. Arulkirubakaran	2020	Materials Today: Proceedings	22	-

	machining of AISI 420 steel with tungsten carbide insert	, D. Manikandan, N.				
64	Smart tracking and monitoring in supply chain systems using RFID and BLE	Kumar, S.G. Prince, S. Shankar, B.M.	2021	2021 3rd International Conference on Signal Processing and Communication, ICPSC 2021	-	-
65	Study on fresh and mechanical properties for different grades of geopolymer concrete with recycled coarse aggregate	Vinay Kumar, V. Bhikshma, V. Vijaya Prasad, B.	2022	Materials Today: Proceedings	60	-
66	Artificial Intelligence-Based Energy Management and Real-Time Optimization in Electric and Hybrid Electric Vehicles	Pritima, D. Rani, S.S. Rajalakshmy, P. Kumar, K.V. Krishnamoorthy, S.	2022	EAI/Springer Innovations in Communication and Computing	-	-
67	Dairy Waste Management: A Narrative Review on Current Knowledge	Anand, T.S. Vahab, H. Chandran, D. Shanavas, A. Kumar, M. Nainu, F. Bagath, M. Mohankumar, P. Mohapatra, R.K. Chakraborty, S. Alagawany, M. Dhama, K.	2022	Indian Veterinary Journal	99	8
68	Investigation on Crack Control and Crack Pattern Analysis of Self-compacting Concrete Exposed to Standard Fire Exposure	Mathews, M.E. Anand, N. Andrushia, A.D. Kiran, T.	2021	RILEM Bookseries	31	-
69	Structural response of self-compacting	Mathews, M.E. Andrushia, A.D. Kiran, T.	2021	Materials Today: Proceedings	49	-

	concrete beams under elevated temperature	Yadav, B.S.K. Kanagaraj, B. Anand, N.				
70	Switched Reluctance Motor Converter Topologies: A Review	Kumar, V.M. Vinoth Kumar, K. Saravanakumar, R.	2020	Lecture Notes in Electrical Engineering	626	-
71	Flexural behavior of fire damaged self-compacting concrete beams strengthened with fiber reinforced polymer (FRP) wrapping	Mathews, M.E. N, A. A, D.A. Kiran, T. Al-Jabri, K.	2021	Journal of Structural Fire Engineering	12	4
72	An investigation on applications of additive manufacturing of electrical machines	Kareem, F.A. Michael, P.A.	2022	Materials Today: Proceedings	58	-
73	Application of Multiple Regression Analysis for Wire Electrical Discharge Machining of Stainless Steel 304	Thejasree, P. Manikandan, N. Binoj, J.S. Krishnamachary, P.C. Arulkirubakaran, D. Reddy, J.J. Reddy, V.I.K. Saikiran, K. Vardhan, C.V.	2022	Lecture Notes in Mechanical Engineering	-	-
74	Ensuring Sustainability via Application of Root Zone Technology in a Rubber Product Industry: A Circular Economy Approach	C, G. Jacob, L. Gautam, S. Singh, N.K. Kumar, R.P.	2022	Sustainability (Switzerland)	14	19
75	Machining of microholes in Ti-6Al-4V by hybrid micro electrical discharge machining to improve process parameters and flushing properties	Mugilan, T. Aezhisai Vallavi, M.S. Santhosh, S. Sugumar, D. Christopher Ezhil Singh, S.	2020	Bulletin of the Polish Academy of Sciences: Technical Sciences	68	3
76	EELC: Energy-efficient lightweight cryptography for IoT networks	Rajesh, G. Raajini, X.M. Sagayam, K.M. Sivasangari, A. Henesity, L.	2020	Security and Privacy Issues in IoT Devices and Sensor Networks	-	-

77	Imaging and sensing for unmanned aircraft systems: Volume 2: Deployment and applications	Estrela, V.V. Hemanth, J. Saotome, O. Nikolakopoulos, G. Sabatini, R.	2020	Imaging and Sensing for Unmanned Aircraft Systems: Deployment and Applications	-	-
78	A novel request state aware resource provisioning and intelligent resource capacity prediction in hybrid mobile cloud	Durga, S. Daniel, E. Leelipushpam, P.G.J.	2022	Journal of Ambient Intelligence and Humanized Computing	13	5
79	Identification of Civil Infrastructure Damage Using Ensemble Transfer Learning Model	Shamila Ebenezer, A. Deepa Kanmani, S. Sheela, V. Ramalakshmi, K. Chandran, V. Sumithra, M.G. Elakkiya, B. Murugesan, B.	2021	Advances in Civil Engineering	2021	-
80	A review of high frequency emission in 2-150 kHz range	Thomas, T. Michael, P.A.	2020	International Journal of Advances in Applied Sciences	9	2
81	Biogas production by pilot-scale anaerobic co-digestion and life cycle assessment using a real scale scenario: Independent parameters and co-substrates influence	Mosquera, J. Rangel, C. Thomas, J. Santis, A. Acevedo, P. Cabeza, I.	2021	Processes	9	11
82	Environmental Impact of Electric Vehicles	Jose, P.S. Jose, P.S.H. Wessley, G.J.J. Rajalakshmy, P.	2022	EAI/Springer Innovations in Communication and Computing	-	-
83	Development of grey-ANFIS model for wire electrical discharge	Palanisamy, D. Manikandan, N. Ramesh, R.	2021	Materials Today: Proceedings	39	-

	machining of Al-GNP composites	Binoj, J.S. Arulkirubakaran, D.				
84	Prediction of Performance Measures in Wire Electrical Discharge Machining of Aluminum–Fly Ash Composites Using Regression Analysis	Palanisamy, D. Manikandan, N. Raju, R. Arul Kirubakaran, D. Binoj, J.S.	2021	Lecture Notes in Mechanical Engineering	23	-
85	Wet-chemical synthesis and physico / electro-chemical performance characteristics of novel perovskite cathode materials for low-temperature solid oxide fuel cells	Reni, M.L. Samson Nesaraj, A.	2021	Iranian Journal of Chemistry and Chemical Engineering	40	2
86	Process automation through internet of things on copper coating process of stainless steel	Kumar, R.R. Rajalakshmy, P. Saranya, M.D. Kirubakaran, S. Elwin, J.G.R. Marichamy, S.	2021	Materials Today: Proceedings	45	-
87	Effect of Friction Stir Welding Tool on Al–SiC Composites by Varying Tool Pin Profile and Tool Material	Jayaseelan, P. Christy, T.V. Vijay, S.J.	2021	Lecture Notes in Mechanical Engineering	-	-
88	Modelling the thermal behaviour of GFRP reinforced concrete beams subjected to elevated temperature by standard fire exposure	Mathews, M.E. Manas, Y.S. Kiran, T. Anand, N.	2020	Journal of Physics: Conference Series	1706	1
89	Review on Arbiter Physical Unclonable Function and its Implementation in FPGA for IoT Security Applications	Shariffuddin, S. Sivamangai, N.M. Napolean, A. Naveenkumar, R. Kamalnath, S. Saranya, G.	2022	ICDCS 2022 - 2022 6th International Conference on Devices, Circuits and Systems	-	-
90	An experimental study on concrete block using construction demolition	Abraham, J.J. Saravanakumar, R. Ebenanjar,	2022	Materials Today: Proceedings	60	-

	waste and life cycle cost analysis	P.E. Elango, K.S. Vivek, D. Anandaraj, S.				
91	Valorization of Agro-industrial Discards in Fermentation for the Production of Cellulase Enzyme	Dinil, A. Jacob, A.	2022	Journal of Pure and Applied Microbiology	16	1
92	Comparative study on the heat transfer performance of micro-grooved anodized thermosyphon with R134a, R600a and R717 for low-temperature applications	Sudhan, A.L.S. Solomon, A.B. Immanuel, I.D.	2021	Journal of Mechanical Science and Technology	35	11
93	Smart solution for waste management: A coherent framework based on iot and big data analytics	Grace Mary Kanaga, E. Jacob, L.R.	2021	Advances in Intelligent Systems and Computing	1167	-
94	Effective removal of proteins using carbon-based nanoadsorbent: relevancy to the application of membrane-driven pre-water treatment	Somu, P. Singh, V. Paul, S.	2021	Journal of Chemical Technology and Biotechnology	96	7
95	Evolution of Industrial Robotic Grippers—A Review	Arulkirubakaran, D. Malkiya Rasalin Prince, R. Ramesh, R. Rajesh, T.C.S.N. Neil Anand, K. Mathew, S.M. Baby, S.T. Anila Sharon, J. Kishore, K.C.S.	2022	Lecture Notes in Mechanical Engineering	-	-
96	An AI powered system call analysis with bag of word approaches for the detection of intrusions and malware in Australian Defence Force Academy and	Melvin, A.A.R. Kathrine, G.J.W. Pasupathi, S. Shanmuganathan, V. Naganathan, R.	2022	Expert Systems	-	-

	virtual machine monitor malware attack data set					
97	Application of soft computing methods in robotic grasping: A state-of-the-art survey	Mahanta, G.B. Deepak, B.B.V.L. Biswal, B.B.	2022	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	236	2
98	Indoor Positioning Systems: A Blessing for Seamless Object Identification, Monitoring, and Tracking	Shyam, S. Juliet, S. Ezra, K.	2022	Frontiers in Public Health	10	-
99	Analysis of combustion, emission and performance attributes of hemp biodiesel on a compression ignition engine	John, C.B. Antony Raja, S.	2020	World Review of Science, Technology and Sustainable Development	16	2
100	Biosorption of Nickel from Metal Finishing Effluent Using Lichen Parmotrema tinctorum Biomass	Gratia, Z.K. Nandhakumar, R. Mahanty, B. Murugan, S. Muthusamy, P. Vinayak, K.S.	2021	Water, Air, and Soil Pollution	232	11
101	A UWB based Indoor Asset Tracking Architecture for Industry 4.0	Shyam, S. Juliet, S. Ezra, K.	2022	Proceedings - 4th International Conference on Smart Systems and Inventive Technology, ICSSIT 2022	-	-
102	IoT and Machine Learning-Based Smart Automation System for Industry 4.0 Using Robotics and Sensors	Sujatha, M. Priya, N. Beno, A. Blesslin Sheeba, T. Manikandan, M. Tresa, I.M. Jose, P.S.H.	2022	Journal of Nanomaterials	2022	-

		Peroumal, V. Thimothy, S.P.				
103	Effect of machining parameters on cutting force during dry milling of 2205 DSS and 2507 SDSS materials	George, P. Leo Dev Wins, K. Ebenezer Jacob Dhas, D.S. George, P. Anuja Beatrice, B.	2021	Materials Today: Proceedings	47	-
104	Production of biochar from Keppaphycus alvarezii (macroalgae) for the removal of eosin yellow: desorption, kinetic, and isotherm studies	Elayappan, T. Jayanarayanan, B. Daniel, A.P.	2022	Biomass Conversion and Biorefinery	-	-
105	Microhardness and Microstructural Behavior of AA7068/SiC Metal Matrix Composites Synthesized by Powder Metallurgy	John Joshua, K. Ramkumar, P. Vijay, S.J. Mohanasundaram, S.	2021	Lecture Notes in Mechanical Engineering	-	-
106	Effect of sphere configured particle damper on tribological properties during boring of hardened steel	Gunaraj, L. Paul, S. Dhas, E.J.	2021	International Journal of Modern Manufacturing Technologies	13	2
107	Major Advances in Monkeypox Vaccine Research and Development – An Update	Chandran, D. Nandanagopal, V.G. Gopan, M. Megha, K. Hari Sankar, C.R. Muhammad Aslam, M.K. Savanth, V.V. Pran, M. Nainu, F. Yattoo, Md.I. Ur Rehman, M.E. Chopra, H. Emran, T.B. Dey, A. Sharma, A.K. Saied, A.A. Dhama, K.	2022	Journal of Pure and Applied Microbiology	16	-

108	Effect of textures on machining of carbon steel under dry cutting condition	Rajesh Ruban, S. Jayaseelan, P. Suresh, M. RatnaKandavalli, S.	2020	IOP Conference Series: Materials Science and Engineering	993	1
109	Data analytics in metering infrastructure of smart grids – a review	Philips, A. Jayakumar, J.	2020	Journal of Green Engineering	10	11
110	Enhancing Mechanical Behavior of As-Built and Annealed Polyethylene Terephthalate Glycol (PETG) Fabricated With Fused Filament Fabrication by Varying Infill Densities	Ruban, S.R. Jannet, S. Raja, R. Kakur, N. Arumugaprabu, V.	2022	Encyclopedia of Materials: Plastics and Polymers	1-4	-
111	An Extensive Critique on Electric Vehicle Components and Charging Systems	Iqbal, M. Sathiyar, P. Stonier, A.A. Peter, G. Vanaja, D.S. Ganji, V.	2022	International Transactions on Electrical Energy Systems	2022	-
112	Development of banana peel powder as organic carrier based bioformulation and determination of its plant growth promoting efficacy in rice Cr100g	David Paul Raj, R.S. Agnes Preethy, H. Gilbert Ross Rex, K.	2021	Journal of Pure and Applied Microbiology	15	3
113	Comparative Study on H2O Steel Billets: Additive Manufacturing vs. Powder Metallurgy	Nasar, S. Baruch, L.J. Vijay, S.J. Srinivas, C.K. Jose, J. Popov, V.V.	2021	Physics of Metals and Metallography	122	5
114	IoT Enabled Sustainable Automated Greenhouse Architecture with Machine Learning Module	Lanitha, B. Poornima, E. Sudha, R. David, D.B. Kannan, K. Jegan, R. Peroumal, V. Kirubagharan, R. Tesfaye, M.	2022	Journal of Nanomaterials	2022	-

115	Experimental investigations and multi criteria optimization during machining of A356/WC MMCs using EDM	Singh, A. Kumar, K. Sundari, K.G. Ranjan, R. Surekha, B.	2022	Decision Science Letters	11	2
116	IoT based stir casting system of aluminium MMC	Raj, P.A.C. Kavitha, P. Sophia, S. Thilagam, K. Devi, V. Khan, J.M.F.	2021	Materials Today: Proceedings	45	-
117	Optimization of cutting parameters of martensitic stainless steel grades aisi 410 and AISI 420 during CNC dry milling	George, P. Selvaraj, D.P.	2021	Journal of Engineering Science and Technology	16	6
118	Artificial Neural Network and Genetic Algorithm-Based Models for Predicting Cutting Force in Turning of Hardened H13 Steel	Leo Dev Wins, K. Anuja Beatrice, B. Ebenezer Jacob Dhas, D.S. Anita Sofia, V.S.	2021	Lecture Notes in Mechanical Engineering	-	-
119	Techniques, challenges and future prospects for cell-based meat	Benny, A. Pandi, K. Upadhyay, R.	2022	Food Science and Biotechnology	31	10
120	Improvement in the graphite electrode wear characteristic of electrical discharge machined Nimonic 90 through plasma nitriding, laser hardening and duplex process	Vivek, J. Kumar, P.V.A. Lewise, K.A.S. Velmurugan, V.	2022	Sadhana - Academy Proceedings in Engineering Sciences	47	4
121	Multifunctional biogenic Al-doped zinc oxide nanostructures synthesized using bioreductant chaetomorpha linum extricate exhibit excellent photocatalytic and bactericidal ability	Somu, P. Khanal, H.D. Gomez, L.A. Vinaykumar, R. Shim, J.-J. Lee, Y.R.	2022	Biomass Conversion and Biorefinery	-	-

	in industrial effluent treatment					
122	Optimal Design Optimization of a Hybrid Rigid–Soft Robotic Hand Using an Evolutionary Multi-objective Algorithm	Mahanta, G.B. Deepak, B.B.V.L. Rout, A. Biswal, B.B.	2022	Lecture Notes in Mechanical Engineering	-	-
123	A comprehensive overview on intelligent mechanical systems and its applications	David, S. Anand, R.S. Sheikh, S. Jebapriya, S. Andrew, J. Xavier, S.B.	2020	Materials Today: Proceedings	37	2
124	Two-stage hybrid electrocoagulation–adsorption in the removal of disperse dyes and inorganic salts from the textile dyeing effluent	Jegathambal, P. Gafoor, A. Parameswari	2021	Desalination and Water Treatment	237	-
125	Beneficial health effects of cumin (Cuminum cyminum) seeds upon incorporation as a potential feed additive in livestock and poultry: A mini-review	Vinod, N. Sreelakshmi, K.S. Neha, A.R. Soman, M. Manalil, S. Sureshkumar, R. Sabareeshwari, V. Naveen Kumar, P. Kumar, K.K. Sangeetha, K.S. Lishma, N.P. Pran, M. Sharma, A.K. Alagawany, M. Dhama, K. Marthandan, V. Chandran, D.	2022	Journal of Experimental Biology and Agricultural Sciences	10	5
126	Heat pipe-embedded tooling for sustainable manufacturing	Kantharaj, I. Vijay, S.J. Vasanth, X.A. Mohanasundaram, S. Rai, R.S.	2021	Sustainable Manufacturing and Design	-	-

127	Investigation on the performance of fiber reinforced concrete subjected to standard fire exposure	Varghese, A. Anand, N. Andrushia, D. Arulraj, P.	2020	World Journal of Engineering	18	3
128	Herbs as Antidote for Snakebite Treatment in India — Traditional Practices and it's Future Prospects — A Review	David Paul Raj, R.S. Mathew, A.A. Jesse Joel, T. Beena Kanimozhi, R. Agnes Preethy, H.	2022	Journal of Natural Remedies	22	3
129	Evolution of Industrial Robots During Mid of Nineteenth Century– Beginning of Twentieth Century—A Review	Arulkirubakaran , D. Malkiya Rasalin Prince, R. Nagarajesh, T.C.S. Palanisamy, D. Anand, K.N. Siddharth, S. Nagasuresh, M. Kishore, K.C.S. Abhishek, N.S.	2022	Lecture Notes in Mechanical Engineering	-	-
130	Prospects of Metakaolin Admixed Palm Kernel Shell Solid Concrete Masonry Block: A Review	John, N. Shanthi, R.M. Tensing, D.	2022	Civil Engineering and Architecture	10	4
131	Iot based prognostics using mems sensor with single board computers for rotary machines	Vasanth, A. Paul, P.S. Shylu, D.S. Paul, P.M.	2021	Przeglad Elektrotechniczny	97	11
132	Correction to: Multifunctional biogenic Al-doped zinc oxide nanostructures synthesized using bioreductant chaetomorpha linum extricate exhibit excellent photocatalytic and bactericidal ability in industrial effluent treatment (Biomass Conversion and Biorefinery, (2022), 10.1007/s13399-022-03177-7)	Somu, P. Khanal, H.D. Gomez, L.A. Vinaykumar, R. Shim, J.-J. Lee, Y.R.	2022	Biomass Conversion and Biorefinery	-	-

133	Flavor Signatures of Beverages and Confectionaries	Areekal, N.N. George, S. Peter, I.M. Thankachan, R. Haponiuk, J.T. Gopi, S.	2021	Natural Flavors, Fragrances, and Perfumes: Chemistry, Production, and Sensory Approach	-	-
134	IoT based smart machinability system and performances of MRR on Haynes alloy	Sudha, R. Rajalakshmy, P. Shankar, M.S.S. Pious, A.E. Raj, P.A.C. Vijayakumar, P.	2021	Materials Today: Proceedings	45	-
135	Preface: Proceedings of the International Conference on robotics, automation and intelligent systems (ICRAINS 21)	Rajalakshmy, P. Mary, X.A. Mahanta, G.B.	2022	AIP Conference Proceedings	2670	-
136	A novel method for minimizing transient current test time by exploiting RES in SRAM	Prince, P. Sivamangai, N.M.	2021	Analog Integrated Circuits and Signal Processing	107	2
137	Green Nanomaterials: Design, Synthesis Properties, and Industrial Applications	Selvakumar, P.M. Nuzhat, S. Quadrey, M.M. Monichan, S. Samdavid Thanapaul, R.J.R. Muthukumar Nadar, M.S.A.	2022	Handbook of Smart Materials, Technologies, and Devices: Applications of Industry 4.0: Volume 1-3	3	-
138	A Literature Review on Secured Data Management using Block Chain Technology in Healthcare Sector	Preethi, S. Priyadharsini, C.	2021	2021 International Conference on Smart Generation Computing, Communication and Networking, SMART	-	-

				GENCON 2021		
139	Effect of Machining Parameters on Cutting Performance of DSS 2205 and SDSS 2507 Materials during Milling Operation	George, P. Leo Dev Wins, K. Ebenezer Jacob Dhas, D.S. Anuja Beatrice, B.	2022	Journal of Advanced Manufacturing Systems	21	4
140	Removal of heavy metals from textile industries with natural adsorbents	Mariappan, S. Issac, R.	2022	Journal of Current Science and Technology	12	2
141	Preparedness in the Aftermath of a Natural Disaster Using Multihop Ad hoc Networks— Drone-Based Approach	Paulraj, G.J.L. Jebadurai, I.J. Jebaveerasingh, J.	2021	Advances in Intelligent Systems and Computing	1133	-
142	Recovery of Bioactive Components from Food Processing Waste	Ravichandran, C. Mutharasu, R.M. Upadhyay, A.	2021	Sustainable Food Waste Management: Concepts and Innovations	-	-
143	A Machine Learning-Based Novel Energy Optimization Algorithm in a Photovoltaic Solar Power System	Prasad, K. Samson Isaac, J. Ponsudha, P. Nithya, N. Shinde, S.K. Gopal, S.R. Sarojwal, A. Karthikumar, K. Hadish, K.M.	2022	International Journal of Photoenergy	2022	-
144	Retraction: Machining of microholes in Ti-6Al-4V by hybrid micro-electrical discharge machining to improve process parameters and flushing properties (Bulletin of the Polish Academy of Sciences Technical Sciences (2020) 68:3 (565-573) DOI: 10.24425/bpasts.2020.133366)	Mugilan, T. Aezhisai Vallavi, M.S. Santhosh, S. Sugumar, D. Ezhil Singh, S.C.	2021	Bulletin of the Polish Academy of Sciences: Technical Sciences	69	4

145	Energy efficient zigbee based secured wireless data transmission and reception	Manimekalai, M.A.P. Thusnavis Bella Mary, I. Babu, J.J. Prince, S.	2021	Journal of Green Engineering	11	2
146	The State-of-the-Art Reverse Logistics for e-Waste Management: A Scenario Specific to India	Arun Vasantha Geethan, K. Jose, S. John, R. Ahmed, I.A. Rajan, P. Rajan, A.P.	2022	Strategies and Tools for Pollutant Mitigation: Research Trends in Developing Nations	-	-
147	IoT control and layer formation of FDM on polycarbonate based aluminium	Chinnasamy, A. Varalakshmi, L.M. Wessley, G.J.J. Malini, T. Sanjith, S. Sheikh, M.F.A.	2021	Materials Today: Proceedings	45	-
148	Software-Defined Network-Based Packet Keys to Secure Critical Infrastructures of Internet of Things	Taurshia, A. Kathrine, J.W. Jebapriya, S.	2022	Lecture Notes in Electrical Engineering	905	-
149	Experimental investigations of aisi 410 and aisi 420 martensitic stainless steel in cnc dry milling operation	George, P. Philip Selvaraj, D.	2021	International Review of Mechanical Engineering	15	5
150	Antlion optimization-based energy management of grid connected domestic PV system	Pradip, C. Subathra, M.S.P.	2020	Journal of Green Engineering	10	8
151	Wet chemical synthesis of graphene containing co / mn co-doped nionanocrystalline materials: Efficient electrode for electrochemical supercapacitors	Sriresh, G. Nesaraj, A.S.	2021	Iranian Journal of Chemistry and Chemical Engineering	40	5
152	Intelligent Facility Management System for Self-sustainable Homes	Gerard Joe Nigel, K. Anand, N.	2022	Smart Urban Computing Applications	-	-

	in Smart Cities: An Integrated Approach	Grace Mary Kanaga, E.				
153	Biological synthesis and characterization of titanium dioxide nanoparticle from Cynodon dactylon	Renitta, R.E. Jebaseeli, T.J. Dhanaraj, A. Paul, S.	2022	Journal of Achievements in Materials and Manufacturing Engineering	113	1
154	Green technology based biomedical device for low cost screening of arthritis in rural areas	Isaac, S. Raj, A.C. Hepsiba Anand, V. Prabakar, S.	2020	Journal of Green Engineering	10	10
155	Effectiveness of Artificial Intelligence Based Recruitment process in the Employment of Indian Hardware Industry	Amuthan, R. Arumugam, D.	2022	International Interdisciplinary Humanitarian Conference for Sustainability , IIHC 2022 - Proceedings	-	-
156	Electrocoagulation Influencing Parameters Investigation on Reactive Dyes in Textile Wastewater: A Simple Optimization Method	Garg, M. Ghosh, S. Kumar, A. Chopra, V. Mall, I.D. Gautam, S.	2021	Bow Ties in Process Safety and Environmental Management: Current Trends and Future Perspectives	-	-
157	Li-Fi: Illuminating the Future of Internet	Abraham, J.M. Kumar, H. Josemin Bala, G.	2020	2020 IEEE 15th International Conference on Industrial and Information Systems, ICIIS 2020 - Proceedings	-	-
158	Erratum to: Comparative Study on H2O Steel Billets: Additive Manufacturing vs. Powder Metallurgy	Nasar, S. Baruch, L.J. Vijay, S.J. Srinivas, C.K.	2021	Physics of Metals and Metallography	122	8

	(Physics of Metals and Metallography, (2021), 122, 5, (515-526), 10.1134/S0031918X21050100)	Jose, J. Popov, V.V.				
159	A Study on Predicting Software Defects with Machine Learning Algorithms	Anjali, C. Dhas, J.P.M. Singh, J.A.P.	2022	Proceedings of 2022 International Conference on Intelligent Innovations in Engineering and Technology, ICIET 2022	-	-
160	Digital Thermometers: Its Types, Utilities, and Global Trade Prospects for India	Anthony Raj, S. Senith, S. Kalpana Sai, B.	2021	Journal of Physics: Conference Series	1937	1
161	Research and development of ISA-DAC-instrumentation software application and data acquisition system for the foundation industry	Gopal, N. Rajalakshmi Raj, P.A.C. Jegan, R.	2022	AIP Conference Proceedings	2670	-
162	Intrusion Detection System for Cyber Attacks in Food and Beverage Industry	Beulah Rani, I. Palmer, G.M. Kathrine, G.J.W. Ewards, S.E.V.	2022	International Conference on Automation, Computing and Renewable Systems, ICACRS 2022 - Proceedings	-	-
163	Additive manufacturing techniques in construction	Sheeja, T.V. Jebadurai, S.V.S. Tensing, D.	2022	Research on Engineering Structures and Materials	8	3
164	An Intelligent Energy Management System with an Efficient IoT based Deep Learning Framework	Bazil Wilfred, C. George, S.M. Sivaranjani, S. Selvan, S.	2022	International Conference on Sustainable Computing	-	-

		Feros Khan, J.M. Beulah David, D.		and Data Communication Systems, ICSCDS 2022 - Proceedings		
165	Impact of Cutting Parameters on Cutting Force of AISI 410 and AISI 420 MSS during CNC Dry Milling	George, P. Selvaraj, D.P. George, P.	2022	Materials Science Forum	1048	-
166	Effects of Infill Speed and Heat Treatment on Mechanical Properties of Carbon Fiber Reinforced Polyethylene Terephthalate Glycol (CF-PETG) Composites	Rubans, S.R. Raja, R. Jannet, S. Venkateshwaran, N. Gurusideswar, S. Kakur, N.	2022	Encyclopedia of Materials: Plastics and Polymers	1-4	-
167	Reliable Surveillance Tracking System based on Software Defined Internet of Things	Isravel, D.P. Silas, S. Rajsingh, E.B.	2020	The Cognitive Approach in Cloud Computing and Internet of Things Technologies for Surveillance Tracking Systems	-	-
168	Influence of Fly Ash and Cement with Molasses Addition on Moulding Properties in Silica Sand: A Comparison	Rao, K.C.A. Bannaravuri, P.K. Birru, A.K. Rao, P.S. Babu Rao, G. Arulkirubakaran, D.	2022	Lecture Notes in Mechanical Engineering	-	-
169	Synthesis of adsorbent from animal waste and its applications in industrial effluent treatment	Kandasamy, S. Baskaran, N. Jeyaprakash, R.K. Nagarajan, V. Manickam, N.K. Subbiah, K.	2020	AIP Conference Proceedings	2240	-

170	Effect of particle damper technique on tribological properties during hard turning process	Lawrance, G. Paul, P.S. Joshwa, D. Sharvilin, S. Sudarsan, K. Arun, R.	2022	Materials Today: Proceedings	49	-
171	Influence of Graphite Particles on Microhardness and Microstructural Behavior of AA7068 Metal Matrix Composites Processed by Powder Metallurgy	John Joshua, K. Vijay, S.J. Ramkumar, P. Philip Selvaraj, D.	2021	Lecture Notes in Mechanical Engineering	-	-
172	Influence of Cutting Parameters on Machinability of DSS 2205 and SDSS 2507 Materials During Milling	George, P. Leo Dev Wins, K. Jacob Dhas, D.S.E. George, P. Beatrice, B.A.	2022	International Journal of Manufacturing, Materials, and Mechanical Engineering	12	1
173	Design, Fabrication, and Performance Analysis of Intelligent Mesoscale Capacitive Accelerometer for Vibration Measurement	Gomathi, K. Sakthivel, R. Joseph John Marshal, S. Pratheep, V.G.	2021	Journal of Testing and Evaluation	49	4
174	Study of Cutting Forces and Prediction of Surface Quality Analysis Using Neural Network Model, Support Vector Regression Model by Various Textured Tool Condition for Ti-6Al-4V Alloy	Arulkirubakaran, D. Prince, R.M. Kumar, R.M. Aravinthkumar, S. Joshva, C.A.	2020	IOP Conference Series: Materials Science and Engineering	923	1
175	Experimental Investigation of Twin Elliptic Orifice at Different NPR Levels	Parameshwari, S. Kumar, P. Thanigaiarasu, S. Rathakrishnan, E.	2020	Lecture Notes in Mechanical Engineering	-	-
176	Literature study on seismic resistance of structures using 3-D printed models	Samuel Abraham, D. Hemalatha, G.	2020	Journal of Critical Reviews	7	9

177	Energy Saving in a Two Stage Compressor by Reducing the Losses in Motor	Kartikeyan, V. Victor, S. Michael, P.A.	2021	Proceedings of the 6th International Conference on Communication and Electronics Systems, ICCES 2021	-	-
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Patents Published

Sl. No	Title Of Invention	Application Number	Date of Filing	Date of Publishing	Inventors
1	Method of Making Antimicrobial Fabric Using Silver Nanoparticles, Banana Sap and Natural Dye	3774/CHE/2014	1/8/2014	7/1/2016	Dr. Arun Dakshinamurthy, Dr. P Mosae Selvakumar, Deena S
2	"Derma Hierbas" an Ointment For Skin Rashes	3775/CHE/2014	1/8/2014	7/1/2016	Dr. Narendhirakannan.
3	A Cheap And Simple Process For The Preparation Of A- Diazo Oxime Ethers	4650/CHE/2014	9/24/2014	7/1/2016	Bharath Kumar Kuruba, Nusrathulla Shariff, Dr. S Vasanth Kumar, Dr. L Emmanuvel
4	Process Of Removal Of Dye From Coloured Effluent Using Aneurinibacillus Aneurinilyticus	5608/CHE/2014	7/11/2014	7/1/2016	Joshni T Chacko, Dr. Kalidass Subramaniam
5	A Method For Decolorization Of Dyes Using Composition Comprising Of Nanoparticle And Microorganisms	5610/CHE/2014	7/11/2014	7/1/2016	Joshni T Chacko, Dr. Kalidass Subramaniam

6	Rotating Spherical Fuel Injector Within A Spherical Combustor For Gas Turbine And Other Applications	6924/CHE/2015	12/16/2015	6/23/2017	Kevin Thomas Kuttothara, Dr. L Godson Asirvatham
7	Modified Expander Re-Heat Cycle Within A Spherical Combustor For Gas Turbine And Other Applications	6923/CHE/2015	12/16/2015	6/23/2017	Kevin Thomas Kuttothara, Dr. L Godson Asirvatham
8	Wound Healing Non Immunogenic Oxazolidinone Nano Scaffolds	201641015465 PCT/IB2017/052562	5/4/2016	17/02/2017	Dr. S Sundar Manoharan, Jhansi Laksmi Parimi, Dr.C. Guruvayoorappan
9	A Method For Decolourization Of Dyeing Waste Water By Electrocoagulation Using Titanium Dioxide Coated Aluminium Electrode	2474/CHE/2015	5/16/2015	11/18/2016	Vinodha Selvaraj, Dr. Jegathambal Palanichamy, Dr. Parameswari Kalivel
10	Photovoltaic Device And Fixtures	201641015466	04/05/2016	11/10/2017	Mr. Dominic Mathew
11	Method For Recovery Of Nano-Particles From Leach Liquor	201641041909	8/12/2016	4/7/2017	Dr. S. Sundar Manoharan, Dr. Princy Merlin
12	Lobicure – A Herbal Wound Healing Ointment	201741004799	10/02/2017	10/27/2017	Dr. Muthukumar Nadar, Mr. Rex Jeyaraj Kumar
13	Aerobic Pre-Fermenter	201741006585	24/02/2017	11/10/2017	Dr. Jibu Thomas, Mr. Suresh Kumar.P, Ms.Vinolia S
14	Mini Loop Thermosyphons	201741029966	24.08.2017	10/27/2017	Dr. Godson Asirvatham, Trijo Tharayil
15	Pod Ash As Reinforcement To Metal Matrix Composites	201741029943	24.08.2017	10/27/2017	Dr. T. V. Christy

16	Battery Charging Method And System	2018410133 79	09.04.2018	11/16/2018	Mr.John Paul And Ashish Johney
17	Biosynthesis Of Isopropyl Myristate	2018410281 22	26.07.2018	16/11/2018	Dr. S. Kavitha, Prof. (Em.) Yoram Oren And Mr. Padmanabhan Dhanasekaran
18	A Polyherbal Ointment For Skin Ailments	2018410369 73	01.10.2018	16/11/2018	Dr. M.S.A.Muthukumar And Dr. S. Rex Jeya Rajkumar
19	A Cystoscope Without Telescope, External Camera Or Traditional Light Source	2019410092 38	09.03.2019	6/14/2019	Dr. J. Gnanaraj
20	Machine For Baking Rice Batter	2019410127 31	29.03.2019	26.02.2021	Dr. M. S. P. Subathra, Mr. J. Edwin Moses
21	Enhanced Production Of Antisnake Venom Compound (Taraxerol) From Suspension Cultures Systems of Suphorbia Hirta L	2019410179 91	06.05.2019	14/06/2019	Dr. David Paul Raj R. S, Mr.Pratap Kumar C
22	Development Of Improved Production Process Of Cellulase From Waste Pulp And Paper Sludge Material	2019410184 65	08.05.2019	14/06/2019	Dr. Pinaki Dey
23	Synthesis Of Pegulated Caffeic Acid – A Novel Anti-Cancer Drug	2019410214 00	30.05.2019	6/7/2019	Dr. Narendhira Kannan R, Dr. Ishwarya M,
24	Low Cost Brain Mapping Tool For Epilepsy Detection	2019410216 14	30.05.2019	07/06/2019	Dr. S. Thomas George, Dr. M. S. P. Subathra, Ms. N. Evangeline Glory, Mr. Ashutosh Singhal, Ms. J. Mabel, Ms.

					S.Belvina Roseline,Ms. J. Mercy Felicia,Ms.N.J.Sai Ramya
25	A Test Set-Up Device For Ac Contractor To Automate Hum Detection And Method Thereof	2019410216 67	31.05.2019	6/7/2019	Dr. K Rajasekaran, Dr. X. Anitha Mary,,Mr. J. Devaprakash,
26	A New Technique And Needle For Laparoscopic Surgical Suturing”	2019410260 04	28.06.2019	05/07/2019	Dr. J Gnanaraj
27	Deflagration – To –Detonation Supersonic Igniter”	2019410260 05	28.06.2019	7/5/2019	Dr. Aldin Justin Sundararaj, Ms. Vinita M Samuel
28	Graphene Optical Data Storage Using Nanoholes	2019410260 06	28.06.2019	7/5/2019	Dr. N. M. Sivamangai,Mrs. P. A. Silpa,
29	Formulation And Evaluation Of Ganoderma Niosomal Topical Gel Drug Delivery System	2019410304 15	27.07.2019	09/08/2019	Dr. J .Vimalin Henna
30	Multi Finned Heat Pipe Embedded Boring Tool	2019410328 59	14.08.2019	20/09/2019	Mr. I Kantharaj
31	Chicken Antibody Generation Against Microbial Pathogen Bacillus Cereus From Human Nail	2019410489 86	28.11.2019	12/13/2019	Dr.P.Levin Anbu Michele Gomez, Dr.C.Vani, S.Abinaya, Elsa Nissi Jacob
32	Specnoscope - A Medical Device For Cervical Cancer Screening	2019410489 85	28.11.2019	12/13/2019	Dr. G. Babu Rao, Mr. R. Jobel Jose, Mr. Tummuru Vijay Kanth, Dr. J. Gnanaraj

33	Novel Volume Measurement System For An Irregular Shaped Tank	2019410489 84	28.11.2019	13.12.2019	Dr. K. Rajasekaran, Dr.P.Rajalakshmy, Dr.P.Subha Hency Jose, Mr.G.Joseph Chinnadurai, Mr. Devaprakash
34	Low Cost Solar Irradiance Measurement And Two Axis - Sun Tracking Control System	2019410506 61	09.12.2019	13.12.2019	Dr. S. Paul Sathiyam, A. Pandian
35	Grid From Work	2020410002 86	03.01.2020	10.01.2020	Dr. G. Hemalatha
36	Process Of Extraction Of Biopesticidal Compound Against Aedes Aegypti (Dengue Vector) Using Pseudomonas Aeruginosa And Products Thereof	2020410086 63	28.02.2020	06.03.2020	Dr. Vani, Lalithambika
37	Dried Banana Peel Powder As An Organic Carrier In Bioformulation For Biocontrol Of Pythium Sp	2020410109 82	13.03.2020	20.03.2020	Dr. David Paul Raj
38	Magnetically Assisted Heat Pipe For Thermal Control	2020410110 73	14.03.2020	20.03.2020	Dr. Brusly Solomon
39	Intelligent Integrated Control System For Electric Vehicle Battery	2020410118 09	18.03.2020	27.03.2020	Dr. Jayakumar, Mr. Dileepan
40	A Novel Composition For Controlling Pathogen In Maize	2020410140 07	30.03.2020	12.06.2020	Dr. Jibu Thomas, Reena Josephine

41	An Insect Repellent Composition From Micro-Algae And The Process For The Preparation Thereof	2020410144 85	31.03.2020	12.06.2020	Dr. Jibu Thomas
42	High Solid Loading Saccharification Process Of Waste Pulp And Paper Sludge (Pps) Material For Production Of Fermentable Simple Sugars In Concentrated Form	2020410193 18	06.05.2020	29.05.2020	Dr. Pinaki Dey, Steve Branden Wood
43	A Multilayer Gate Mosfet For Reducing Short Channel Effect	2020410195 70	08.05.2020	29.05.2020	Dr. D. Nirmal
44	An Escalator For Lifting The Elderly Or Physically Challenged Person From Ground Level	2020410196 84	09.05.2020	29.05.2020	Dr. Babu Rao
45	Kavid – Karunya Disinfection Chamber	2020410206 77	15.05.2020 /28.04.2021	8.10.2021	Dr. Jibu Thomas, Dr. Jacob Kalaiselvan Annamalai, Dr. Vani, Dr. Muthukumar Nadar, Dr. Jesse Joel, Mr. Robert
46	Anodized Micro Fins For Enhanced Heat Transfer In Heat Pipes With Ammonia As Working Fluid	2020410209 27	18.05.2020	05.06.2020	Dr.A. Brusly Solomon, A.L.Sriram Sudhan
47	A Low-Cost Portable Cryotherapy Instrument For Treating Sports Injuries	2020410211 46	19.05.2020	29.05.2020	Mr.Jithin V Raj, Dr.D.Pamela, Mr.K.Gerard Joe Nigel, Dr.S.P.Jai Prabhu

48	Ampoule Bottle Penetrator	2020410211 45	19.05.2020	05.06.2020	Dr.J. Prabhu, Dr. R. Nandhakumar
49	Water Purifier Using Natural Strata	2020410211 47	19.05.2020	29.05.2020	Dr.Sneha Gautam, Dr. Brema J, Mr. Prabhat Ekka, Mr. Boya Gokul
50	A Device For Determining The Quality Of Milk	2020410211 89	20.05.2020	05.06.2020	Dr.J. Prabhu, Dr. R. Nandhakumar, Mr. Joseph Chinnadurai
51	Attention Deficit Hypersensitivity Disorder (Adhd) Detection System	2020410213 56	21.05.2020	05.06.2020	Dr. S. Thomas George, Dr. D. Narain Ponraj, Mrs. Catherine Joy, Mr. Ashuthosh Singhal, Mr. Devesh Singh
52	A Microbial Fuel Cell For Generating Electricity From Wastewater	2020410218 96	26.05.2020	05.06.2020	Dr. S. Kavitha, Dr. Sakunthala Ayyasamy, Sanjana Rajeev, Suresh Kumarkrishnan, Pavithra Shanmugaraj
53	A Non-Voice Based Communication System And Method For Aiding The Paralyzed And Speech Impaired People	2020410231 21	02.06.2020	12.06.2020	Dr. P. Subha Hency Jose, Oshin R Jacob, Susma Grace Varghese, Ruth Molly Benjamin
54	A Composition For Preparing Electrospun Polymeric Nanofiber Mat For Preparing Face Mask For Antimicrobial Use	2020410240 59	08.06.2020	12.06.2020	Dr. Israel V.Muthu Vijayan Enoch, Aleyamma Alexander
55	Lithium Trivanadate Thin Film Nanorods By Pulsed Laser Deposition Technique	2020410244 67	11.06.2020	8.1.2021	Dr. Rajesh, Professor, Dr. Sakunthala Ayyasamy, Dr. Vidhya, Nandhakumar Raju, Rojin Varghese, Shobin Vijay

56	De-Colouring And Dye Removal Agent	2020410244 72	11.06.2020 /27.02.2021	05.03.2021	Dr. Rajesh, Dr. Sakunthala Ayyasamy, Dr. Vidhya, Nandhakumar Raju, Manjula Raveendranatha Shenoy
57	A Triboelectric Nanogenerator	2020410270 95	26.06.2020	10.07.2020	Dr. D. Nirmal, Dr. S. Vasanth Kumar, Mr. Godfrey, Dr. Subramanian Ramanathan
58	Instant One Pot Chemical Synthesis Of Carbon Nano Flake (Cnf) Particles	2020410311 62	21.07.2020	07.08.2020	Dr.Samson Nesaraj, S. Dharani Priya, A. Deepi
59	A Polymeric Nanofabric Material To Prevent Microbial Pathogens	2020410314 84	23.07.2020	31.07.2020	Dr. Rajesh Swaminathan, Dr. Sakunthala Ayyasamy, Dr. Vidhya Bhojan, Dr. Nandhakumar Raju, Dr. Nitin Patel
60	Hand Gesture Controlled Trash Can For Bedridden Patients	2020410362 74	23.08.2020	04.09.2020	Mr. John Paul, Dr. Shobha Rekh, Mr. Asish Johney George
61	A Friction Stir Welding Device And The Method Involved Thereof	2020410372 66	28.08.2020	11.09.2020	Dr. S. J. Vijay, Mr. Sharon Topno, Dr. A. Brusly Solomon
62	Gi Nettings For Partially Restrained Rcc Beam Column Joint	2020410374 08	31.08.2020	25.09.2020	Mr. E. Arun Raj, Dr. Vincent Sam Jebadurai, Dr. G. Hemalatha

63	A Method Of Coating Seeds Of Gmelina Arborea With Bioformulation For Biocontrol Of Damping- Off Disease	2020410409 28	21.09.2020	02.10.2020	Dr. David Paul Raj, Geetu K M, Beena Kanimozhi R, Rohini S, Jemmy Joy
64	A Panipuri Dispensing System	2020410413 69	24.09.2020	02.10.2020	Dr. Paul Sathiyam, Mr. Sandeep Kumar, Mr. Alan, Mr. Jesinth Arnold
65	Women Safety Wearable Device	2020410464 15	24.10.2020	15.01.2021	Mr. S. Basil Xavier, Dr. G. Jasper W Kathrine, Ms. Charlotte Hephzibah Panga, Ms. Aaradhana, Ms. Susan P Matthew, Ms. Akku,
66	Improved Blowing Suction System(Ibss) For Enhanced Aerodynamic Performance In Aircraft Wing	2020410464 16	24.10.2020	15.01.2021	Mr. K. Balaji, Dr. G. Jims John Wessley
67	Process Of Preparing Mwcnt, Abaca Fiber And Epoxy Based Reinforced Nanocomposite Laminate And Product Thereof	2020410464 17	24.10.2020	15.01.2021	Rittin Abraham Kurien, Dr. Philip Selvaraj
68	Intelligent Ergo - Computer Chair	2020410466 53	26.10.2020	15.01.2021	Dr. Mona Sahu, Dr. Vijay, Dr. Wilson Kumar, Dr. Baburao, Mr. Emmanuel De Souza, Mr. Samuel Walter Ezekiel

69	Biowaste Derived Carbon Electrode Supercapacitor	202041047605	31.10.2020	6.11.2020	Dr. D. Nirmal, Dr. S. Vasanth Kumar, Mr. Godfrey, Dr. Subramanian Ramanathan, Dr. Arulapan Durairaj
70	An Artificial Intelligent Ergonomic Stand For Laptop	202041050701	21.11.2020	04.12.2020	Dr. Mona Sahu, Dr. Vijay, Dr. Wilson Kumar, Dr. Baburao, Mr. Paga Jacob Basil Roy, Mr. Konduru Srinivasa Chakravarthy, Mr. Dokka Prem Prasanth
71	Novel Material For Electro Adhesive Materials, The Products Thereof And The Methods Of Manufacture	202041052409	01.12.2020	11.12.2020	Dr. Rajesh, Dr. Nandhakumar, Dr. Vidhya, Dr. Sakuthala, Dr. Nitin Patel
72	Uv Object Sanitizer	202141007236	21.02.2021	26.02.2021	Dr. Manimegalai, Dr. S. Thomas George
73	An Improved 360-Degree Sanitizing Machine 'Duosanz' Machining System	202141007237	21.02.2021	26.02.2021	Dr. Majumdar Abhishek, Dr. Debnath Tapas, M. Sathiaraj
74	Method Of Making Vertically Aligned Liv3o8 Thin Films On Fto By Spray Pyrolysis	202141009407	05.03.2021	3.9.2021	Dr. A. Sakunthala, Dr. S. Rajesh, Dr. R. Nandhakumar, Dr. B. Vidhya, Mr. Rojin Varghese, Mr. Shobin Vijay
75	Step Impedance Resonator Structure Based Flexible Antenna For Wearable Applications	202141010036	10.03.2021	19.03.2021	Dr. Nesasudha, Mr. Doondi Kumar, Mr. Sudhakar, Mr. Jose Kommini
76	A Novel Herbal Disinfecting Composition And Dispensing Device Thereof	202141014723	29.03.2021	16.07.2021	Dr. Jibu Thomas, Dr. S. Thomas George, Dr. D. Narain Ponraj, Mr. Joseph Chinnadurai, Mr. Devaprakash

77	A Half Coil Manufactured From A Novel Composition For Brushless Dc Motor Windings With Improved Efficiency	202141016081	05.04.2021	16.04.2021	Dr. Prawin Angel Michael, Dr. S. J. Vijay
78	Household Cost Effective Biocompatible Non Uv Nanocomposite Membrane Based Water Purification System	202141017290	13.04.2021	3.9.2021	Dr. Jegathambal, Dr. A. Hepzibah Christinal, Dr. R. Emilin Renitta, Dr. Martin Mkandawire, Dr. Stephanie Macquarrie, Dr. Rajendran Kaliaperumal
79	A Novel Foam Block For Treating Textile Dyeing Effluent	202141017946	19.04.2021	30.04.2021	Dr. Jegathambal, Ms. A. Lincy, Ms. Shobina K Moses, Mr. Venkat Veeresh
80	A Device For Trapping Locust	202141020431	04.05.2021	11.06.2021	Dr. Elizabeth Amudhini Stephen, Dr. Sujitha Juliet, Dr. G. Hemalatha, Mr. Geo Kingsly Lynus
81	A Nanoparticle Coated Coolant Pipes For Concrete	202141021161	10.05.2021	11.06.2021	Dr. Trijo Tharayil, Dr. Godson Asirvatham
82	Loop Structure Based Flexible Antenna For Medical Monitoring Applications	202141025459	08.06.2021	25.06.2021	Dr. Nesasudha, Dr. Subha Hency Jose, Mr. Doondi Kumar, Mr. Sudhakar, Mr. Akhil Augustin, Mr. Jerin Jose
83	A Fabric Based Electro-Adhesive Clutch Operated Exosuit	202141040925	09.09.2021	24.09.2021	Dr. S. Rajesh, Dr. A. Sakunthala, Dr. R. Nandhakumar, Dr. B. Vidhya
84	Process Of Preparation Of Zno Nanoparticles Incorporated Bio-Organic Fertilizer And Product Thereof	202141046595	12.10.2021	29.10.2021	Dr. S. Rajesh, Dr. A. Sakunthala, Dr. R. Nandhakumar, Dr. B. Vidhya, Ms. T. Bincy

85	A Process Of Preparing Feo-Go-Hbn Composite And Product Thereof	2021410465 96	12.10.2021	29.10.2021	Dr. S. Rajesh, Dr. A. Sakunthala, Dr. R. Nandhakumar, Dr. B. Vidhya, Dr. J. Prabhu
86	Process Of Preparation Of Magnesium Ion Conducting Electrolyte Membrane And Product Thereof	2021410465 97	12.10.2021	29.10.2021	Dr. S. Rajesh, Dr. A. Sakunthala, Dr. R. Nandhakumar, Dr. B. Vidhya
87	Target Protein Predictions For Infectious Diseases	2021410579 26	13.12.2021	17.12.2021	Dr. G. Naveen Sundar, Dr. Paul Sathiyam, Dr. D. Narmadha
88	A Process For Isolating Polyglycine Compound From Xenorhabdus Stockiae	2022410092 22	21.02.2022	04.03.2022	Dr. C. Vani, Mr. Jissin Mathew
89	Tool For Optimality In Automatic Washer Punching	2022410092 23	21.02.2022	04.03.2022	Dr. R. Sabitha, Dr. J. Immanuel Johnraja, Dr. Esther Daniel, Mr.S. Aravind Raj
90	Improved Backing Plates With Cooling For Friction Stir Processing	2022410092 27	21.02.2022	11.03.2022	Dr. R. Raja, Dr. S.J. Vijay, Dr. Tapas Debnath, Dr. Sabitha Jannet, Dr. L. Godson Asirvatham
91	Ai System For Post Crash Care On Road Traffic Injuries	2022410130 76	10.03.2022	18.03.2022	Dr. R. Elijah Blessing, Dr. S. Salaja, Mrs. P. Joyce Beryl Princess
92	A Broadband Optically Transparent Metamaterial Absorber Self-Energy Harvester	2022410158 04	22.03.2022	25.03.2022	Dr. Victor Du John, Dr. Jackuline Moni, Dr. D. Narain Ponraj
93	A Portable Low Cost Cpap For Life Saving Applications	2022410214 13	11.04.2022	22.04.2022	Dr. P. Manimegalai, Dr. S. Thomas George, Derek Sanch, Sowmya, Orianna Gabriella Manners,

					Joseph Chinnadurai, Devaprakash, Patturaj
94	System And Method For Automatic Model Transformation Using Behaviour Extraction	2022410225 61	16.04.2022	06.05.2022	Dr. Mythily, Ms. Rexie, Dr. Kethsy Prabavathy, Ms. Devapriya, Dr. Brindha
95	Hybrid Power Source System For Elevators	2022410228 17	18.04.2022	13.05.2022	Dr. Prawin Angel Michael, Dr. S. J. Vijay, Dr. Victor Du John
96	Site Specific Curcumin Conjugates Of Molecular Imaging Probes For Therapy And Diagnostic (Theranostic) Imaging Applications	2022410254 94	01.05.2022	03.06.2022	Dr. Jebasingh Bhagavathsingh, Angel Green, Zavier Thaliyakuzhy, Sundar Manoharan, Nagabhusan Vellala, Brahmadathan Kootallur
97	Industrial Indoor Asset Positioning And Navigation System	2022410293 47	21.05.2022	03.06.2022	Dr. Sujitha Juliet, Dr. Kirubakaran Ezra, Ms. Shilpa Shyam
98	A Preparation Method Of Vertically Aligned Carbon Nanotubes And Reduced Graphene Oxide As Lamellars	2022410299 28	25.05.2022	03.06.2022	Ms. Priyanka P, Dr. S. Rajesh, Dr. B. Vidhya, Dr. A. Sakunthala, Dr. R. Nandhakumar
99	An Artificial Intelligence Based Real Time Multilingual Neural Sign Language Machine Translation System	2022410299 34	25.05.2022	03.06.2022	Mrs. Jennifer Eunice R, Dr. D. Jude Hemanth
100	Automatic Swab Testing Machine	2022410307 28	29.05.2022	17.06.2022	Mr. Santhosh Kumar, Dr. Anitha Mary, Dr. S. Thomas George
101	A System For Proactive Diagnosis Of	2022410385 87	05.07.2022	15.07.2022	Mr. G. Samuelraj Chrysolite, Dr. Anita Jones Mary Pushpa,

	Breast Cancer Employing Non Invasive Adhesive Sensor Array Antenna				Dr. Sugumar, Dr. Deborah Angelin Preethi
102	Edible And Biodegradable Cutlery As A Nutritional Supplement And A Method Of Making Thereof	2022410393 15	08.07.2022	15.07.2022	Dr. David Paul Raj, Dr. Pragalyaashree, Edappattu Evalin Eldho, Puthenveettil Almi Babu
103	Specnoscope Plus - An Indigenous Cervical Cancer Screening Unit	2022410601 90	21.10.2022	04.11.2022	Dr. Gadudasu Babu Rao, Mr. Limson Mathew, Dr. Kumuda Raimond, Dr. D. Sujitha Juliet, Dr. Kurinji Priya
104	A Cost Effective And Low Power Consuming Textile Effluent Treatment Method For Effluent Reclamation	2022410615 78	28.10.2022	04.11.2022	Ms. S. Sahaya Leenus, Dr. K. Parameswari
105	Capacitance Based Portable Sensor For Detecting Floating Objects	2022410707 97	08.12.2022	16.12.2022	Mr. K. Gerard Joe Nigel, Dr. Pamela, Mr. Sanu Santhosh, Mr. Delwin Mathew Joseph, Mr. Amal Sojan, Mr. Kevin Yesudas
106	Voice Based Communication System	2022410740 00	20.12.2022	13.01.2023	Dr. E. Grace Mary Kanaga, Ms. M. Bhuvaneswari, Dr. S. Thomas George, Mr. J. Denny Ebenezer Samuel, Mr. Caleb Stephen
107	Flexible Self Driven Energy Harvesting Device For Portable Biomedical Devices	2023410057 84	30.01.2023	17.02.2023	Dr. R. Jagan, Dr. Subha Hency Jose, Nimi W.S

108	A Process Of Preparation Of Pyruvic Acid Conjugated Macrocycles Of Paramagnetic Complexes	2023410088 15	10.02.2023	24.02.2023	P. Mano Ranjana, Dr. B. Jebasingh
109	Augmentation In Damping Efficiency Using 3d Printed Accumulator In Magneto-Rheological Damper For Structural Application	2023410095 98	14.02.2023	24.02.2023	S. Vevekananda Sharma, Dr. G. Hemalatha, Dr. E. Arunraj
110	3d Printing Head For Reinforced Concrete Structural Elements	2023410096 04	14.02.2023	24.02.2023	Pratheeksh Joshy, Sajin Philip, Dr. S. Vincent Sam Jebadurai, Dr. G. Hemalatha
111	Internet Of Things Based Food Recommendation System	2023410266 36	10.04.2023	05.05.2023	Ebenezer, Shreyanshi Paul, Yemimol, Sharon Rose, Bijolin Edwin, Roshni Thanka
112	Voice Enhanced Handheld Assistive Device For Elderly And Persons With Speech Disorders	2023410290 53	21.04.2023	05.05.2023	Hepsiba, Vijay Anand, Vinotha, Joseph Chinnadurai
113	Electric Field Induced Integration Of Vertically Aligned Carbon Nanotubes Into Graphene As Three Dimensional Structure	2023410305 29	28.04.2023	05.05.2023	Dr. S. Rajesh, Dr. B. Vidhya, Dr. A. Sakunthala, Dr. R. Nandhakumar
114	A Rapid Method For Extraction Of Clonazepam From Spiked Carbonated And Non-Carbonated Soft Drink Samples	2023410308 60	29.04.2023	26.05.2023	Archana Anil Kamble, C. Joseph Kennady, Ashish Badiye, Neeti Kapoor

115	Smart Cradle Device For Baby Monitoring	2023410341 75	15.05.2023	18.08.2023	Manimegalai, Thomas George, Amritha Michael
116	A System Of Power Generating Tile	2023410423 27	23.06.2023	01.09.2023	Pullanikkat Abhilash, Pullanikkat Abhishek, Praise Elizabeth, Bollavarapu Ashish Enoch, Catherina G, Bondugula Shalem Raj, Dr. Hemalatha, Dr. Sneha Gautam, Dr. Alok Sagar Gautam, Sanjeev Kumar
117	A System For Portable And Replaceable Indian Cleaver Knife For Chopping Meat	2023410423 28	23.06.2023	01.09.2023	Dr. F. T. Josh, Dr. Jency Joseph, Ms. Grace Judith, Ms. Sankepalle Deekshitha, M. Abarna, A. Jebasingh
118	A Process Of Preparation Of Fibre Rich Tender Coconut Water Jelly And Product Thereof	2023410496 12	24.07.2023	01.09.2023	Nivetha, Dr. Arun Kumar
119	Smart Vacuum Salon Chair System	2023410511 13	29.07.2023	01.09.2023	Pullanikkat Abhilash, Joel Varma, Febin Joseph, Cyril Samuel Dr. Sneha Gautam, Dr. Godson Asirvatham Lazarus
120	Internet Of Things Based Wearable Device For Women Safety	2023410511 65	29.07.2023	01.09.2023	Dr. Ebenezer, Uvaana Falicica, Rithika Baskaran, Agatha Celesty, Sejal Eden, Dr. Roshni Thanka
121	A One Pot Simultaneous Electrooxidation-Electrocoagulation Process For Effective Pollutant Removals From Textile/Pharmaceutical Waste Water	2023410573 03	26.08.2023	08.09.2023	Riju S Robin, Dr. Parameswari, Jovitha Jane

122	Intelligent Speech Assistive System For Voiceless People	2023410588 51	01.09.2023	06.10.2023	Dr. Salaja Silas, P Joyce Beryl Princess, Dr. Getzi Jeba Leelipushpam, Graeson Joshua Elijah, Evalt David
123	A Process Of Electrochemical Sensor Based Detection Of Tryptophan	2023410602 57	07.09.2023	06.10.2023	Sudharshan Bangaru(Rrk21nt2001) , Dr. Suresh Babu
124	Eco-Friendly Honey Bee Repellent Herbal Spray	2023410618 11	14.09.2023	06.10.2023	Dr. David Paul Raj, Sneha Annie Abraham, Kavnila
125	A Self Controlled Assistive Wearable Electronic Simulation Device	2023410699 42	16.10.2023		Dr. R. Jegan, Dr. S. Thomas George, Nimi W.S, J. Devaprakash, Mercy Golda

University Spinoffs

Sl. No	Title of the Technology	Inventors	Patent No.
1	Improved backing plates with cooling for friction stir processing	Dr.R.Raja, Dr.S.J.Vijay, Dr.Tapas Debnath, Dr.Sabitha Jannet, Dr.Godson L.Asirvatham	202241009227
2	Specnoscope Plus - A Medical Device for Cervical Cancer Screening.	Dr. G. Babu Rao, Dr. Kumudha Raimond, Mr. Limson Mathew, Dr. Sujitha Juliet, Dr. Kurinji Priya	202241060190
3	A system for proactive diagnosis of breast cancer employing non – invasive adhesive sensor array antenna	Dr.Samuelraj Chrysolite.G , Dr.Anita Jones Mary Pushpa.T, Dr.Sugumar.D, Dr.Deborah Angelin Preethi.P	202241038587
4	Hand gesture controlled trash can for bedridden patients	John Paul Asish Johney George A Shobha Rekh	202041036274

5	Hybrid power source system for elevators	Dr. Prawin Angel Michael, Dr. S. J. Vijay, Dr. H. Victor Du John	202241022817 A
6	Deflagration to detonation supersonic igniter, 2019	Dr. Aldin Justin Sundararaj Mrs. Vinita Samuel	201941026005
7	Automatic swab testing machine	Santhosh Kumar. Anitha Mary. X Thomas George	202241030728 A
8	A rechargeable cryotherapy instrument for treating sports injuries	Mr.Jithin Raj Dr.D.Pamela Mr.K.Gerard Joe Nigel Dr.S.P.Jai Prabhu Dr.Bobby Paul	202041021146
9	A test set-up device for ac contactor to automate hum detection and method thereof	Dr.K.Rajasekaran, Dr.X.Anitha mary Mr.J. Devaprakash	201941021667 A
10	Ai system for post-crash care on road traffic injuries	Dr. Elijah Blessing Dr. S. Salaja Mrs. P.Joyce Beryl Princess	202241013076 A
11	Novel material for electro-adhesive materials, products thereof and method of manufacture	Dr.S.Rajesh, Dr.B.Vidhya, Dr.R.Nandhakumar, Dr.A.Sakunthala, Dr.Nitin Patel	202041052409
12	Chicken Antibody Generation against Microbial Pathogen Bacillus Cereus from Human Nail.	Dr.P.Levin Anbu Michele Gomez, Dr.C.Vani, Ms.Abinaya, Ms.Elsa Nissi Jacob	201941048986
13	KaViD – Karunya Disinfection Chamber	Dr. Jibu Thomas, Dr. Jacob Kalaiselvan Annamalai, Dr. Vani, Dr. Muthukumar Nadar, Dr. Jesse Joel, Mr. Robert	202041020677
14	Truchet Cube Puzzle	Dr. S Jebasingh	362636-001, 350980-001
15	Women safety wearable device	Mr.S.Basil xavier Dr.G.Jasper w.Kathrine Ms.Charlotte hephzibah panga Ms.Aaradhana Ms.Susan p matthew Ms.Akku	202041046415 A

16	A low Cost CPAP for wide-speed usage	Ms. Sowmya Sudhakar, (URK19BM1001) Dr. P Manimegalai, Associate Professor Mr. Derek Sanch I, (URK19BM1020) Ms. Oriana Gabriella Manners, (URK19BM1033) Ms. Reshma Immaculate S (URK20BM1012) Ms. Amy Fedora F (URK20BM1005) Dr. S. Thomas George, Professor, HoD BME	NIL
17	Miniature gardening and indoor scaping using terrariums	Mr. Albero A, (URK20AC1110) Mr. Febin Brito M, (URK20AC1082) Mr. Anas S, (URK20AC1118) Mr. Melbin C Abraham (URK20AC1071) Ms. Dona P, (URK21AC1238) Ms. Nithya Shree BR (URK21AC1210)	NIL
18	Electronic device for mosquito eradication in septic Chambers	Dr. R. Philip Sridhar, Professor Dr. P Rajalakshmy, HoD Associate Professor Dr. X Anitha Mary, Associate Professor	NIL
19	Treatment of textile dyeing effluent from small scale industries	Dr. P. Jegathambal, Professor Dr. J. Srinivasan, Assistant Professor Dr. Prawin Angel Mechael, Associate Professor Dr. Sabitha Jannet, Assistant Professor	NIL
20	Traditional Herbal oil for pain relief Testing, validation and marketing.	Dr. David Paul Raj RS, Associate Professor Dr. Premnath D, Assistant Professor Dr. Sajan Kurian, Dean SAS	NIL
21	Commercialization of alternative protein products with low carbon footprint	Dr. Rituja Upadhyay, Associate Professor Ms. Sai Sathvika Moparathi (URK19FP1065) Mr. Gokul Krishna L. (URK19FP1051)	NIL

		Ms. Shyweta Kalokhe Mr. Vinnay Upadhyay	
22	Anti-Theft Device for Fishing net	Mr. Gerard Joe Nigel K, Assistant Professor Dr. Pamela D, Associate Professor	NIL
23	ZOE Cloud Services	Dr. J. Jaya Kumar, Professor	NIL
24	Abaya Security	Dr. Siva Mangai, Associate Professor, ECE	NIL
25	Chitosan based domestic water filtration unit	Dr. Suguna Devakumari M, Assistant Professor Dr.Praveena Katharine S Assistant Professor	NIL

Karunya Technology Business Incubation Park (K-TBIP) Incubates List

I. List of Student Incubates

Sl. No	Names	Division	Theme/Product	Company Name
1	Ms. P. Srisha (URK19AC1131)	Agriculture	Row to row method of fertilizer application machine which is very easy to handle by the farmers, cost effective and acceptable in all land forms	Inoculture
	Mr. A. Sanjay (URK19AC1148)			
	Mr. A. Derak Gladio (URK19AC1011)			
	Mr. M. Mohamed Ashif (URK19AC1127)			
2	Mr. Vinith Arockiasamy (URK18AE014)	Aero Space Engineering	Ceres, a user-friendly AI crop management system that can be implemented in drone/ robot	Nerd fliers
3	Mr. Sanu Santhosh (URK18RA024)	Robotics Engineering	Ensures fertilizer benefits by optimizing soil PH. Increases crop yield	Innoagri
	Mr. Kevin Yesudas (ULK18RA001)			
	Mr. Amal Sjan (URK18RA00003)			
	Mr. Delwin Mathew Joseph (URK18RA004)			
4	Mr. Joy Sam Raj. M (URK20CS1066)	CSE	Client's modern business problems can be solved by modern computers via web and desktop applications.	Kallardo

5	Mr. US Manikanda (URK20EC1100)	ECE	FFF 3D printers most commonly print in PLA or ABS plastic	US Enterprises
6	Mr. J. Midhun (URK20AI1047)	CSE	An easy platform for booking the charging slots or the customers who uses the EV cars	Eco charge
	Mr. R. Manohar (URK20AI1057)			
	Mr. B. Praveen (URK20AI1060)			
7	Mr. Thilak Kumar (PRK20MS1081)	MBA	Create an integrated mobile app so that the event photographers and the people can find it easy to reach each other and satisfy their requirements	Wedin
8	Mr. Victor Immanuel. C (PRK19CE1004)	Civil Engineering (alumni)	Virtual reality techniques, making use of this, elements can avoid any collisions, construction errors leading to real time model modifications	VR Wereld
	Mr. Jerushan Jeyraj (RRK21CE1004)			
	Ms. Lavanya Anapa (PRK19CS5003)			
	Mr. K. Sri Venkata Naga Raju (PRK19MS1095)			
	Mr. Satya Narayana Swamy Deonepudi (PRK19CE1010)			
9	Mr. CH.Harshith Kumar(URK19CS1035)	CSE	To improve the efficiency of a drone copter based on a green cover fixing using a radar which identifies the green cover automatically to enhance efficiency in drone copter (UAV)	Drone copter
	Mr.PhilipPaul, (URK19CS1228)			
	Mr. D.M.BevinGeoff, (URK19CS1018)			
10	Mr. S. Kishor Kumar (PRK21MS1084)	MBA	Smart Transportation using E-vehicle transporting people in a closed campus 24/7 without any human power	-
11	Ms. Daya Susan George, (URK22AI1113)	CSE	Wearable device for identification and	

	Mr. Armstrong Aldrin. A (URK22AI1093)		management of panic and anxiety disorders	-
	Mr. Ramly Alan. A (URK22AI1102)			
	Ms. Vikasini. S (URK22AI1068)			
12	Ms. Sowmya Sudhakar, (URK19BM1001)	Biomedical Engineering	A low Cost CPAP for wide-speed usage	CPAP
	Dr. P Manimegalai, Associate Professor			
	Mr. Derek Sanch I, (URK19BM1020)			
	Ms. Oriana Gabriella Manners, (URK19BM1033)			
	Ms. Reshma Immaculate S (URK20BM1012)			
	Ms. Amy Fedora F (URK20BM1005)			
	Dr. S. Thomas George, Professor, HoD BME			
13	Mr. Albero A, (URK20AC1110)	Agriculture	Miniature gardening and indoor scaping using terrariums	Hurτος
	Mr. Febin Brito M, (URK20AC1082)			
	Mr. Anas A, (URK20AC1118)			
	Mr. Melbin C Abraham (URK20AC1071)			
	Ms. Dona P, (URK21AC1238)			
	Ms. Nithya Shree BR (URK21AC1210)			
14	Mr. Samu Idhayan I, (URK21CS2006)	CSE	A User-friendly manner platform for the farmers to market their harvest	Farmer Friend
15	Mr. Gugasujith M, (URK21CS2027)	CSE	An online marketing platform for traditional goldsmiths	Handmade Authentics
16	Ms. Vedha Viboosini S L (URK22AC1047)	Agriculture	Bio fortified Micro greens Production	Micro greens
	Mr. Mohammed Saif K (URK22AC1023)			
	Ms. Dhiviya S J (URK22AC1045)			

	Ms. Madhupriya D (URK22AC1024)			
	Mr. Karthick M (URK22AC1002)			
	Mr. Abhijeet S (URK22AC1019)			
17	Ms. Harshini P, (URK20AC1035)	Agriculture	Hibiscus gulkands as an antioxidant suppliments	Hibiscus gulkands
	Ms. Sanchana Dhas A K, (URK20AC1027)			
	Ms. Madhu Pankajam N, (URK20AC1044)			
18	Mr. Aman Daniel Dalal, (PRK21FS1043)	Applied Chemistry	3-Dots Ice Creams	3-Dots
	Mr. Sharon Kumar Darnasi, (PRK21FS1029)			
	Mr. Akash Good Win M, (PRK21FS1015)			
19	Mr. G. Bexell, (PRK21AC2026)	Agriculture	Birds and wild animal infestation - prevention	-
20	Ms. TP. Tryphena, (URK21AC1267)	Agriculture	Herbal E-ball	-
21	Ms. Kanimozhi E (URK19HC1019)	Agriculture	Dry flower product making	-
	Ms. Athulya Binu (URK21AC1108)			
	Ms. Suganthiya.S (URK21AC1160)			
	Ms. Sameekshaa S (URK21AC1143)			
	Ms. Hema Surthi V S (URK21AC1090)			
	Ms. Dheetchitha Priyadharshini AM (URK21AC1095)			
	Ms. Nighisha G J (URK21AC1096)			
22	Mr. S. Parthiban (URK20RA1005)	Robotics Engineering	Kreatln	-
	Ms. Rashmi Kiran	External Members		
	Mr. Bobby Vishal			
	Mr. Dhanush AM			
23	Mr. C.L. Brijesh (URK22BT1030)	Biotechnology	Healo Packs (Lakshmi Print and Pack)	Healo Packs

II List of Faculty / Staff Incubates

Sl. No	Names	Department	Theme/Product	Company Name
1	Dr. S. Rajesh, Professor and Head	Applied Physics	Healthcare assistive energy device for physically challenged people.	Four I Tech R&D solutions pvt ltd
	Dr. R.Nandhakumar, Professor	Applied Chemistry		
	Dr. B. Vidhya, Assistant Professor	Applied Physics		
	Dr. A. Sakunthala, Assistant Professor	Applied Physics		
2	Dr. S. Rajesh, Professor and Head	Applied Physics	Low power lighted weight Exosuit	Four I Tech R&D solutions pvt ltd
	Dr. R. Nandhakumar, Professor	Applied Chemistry		
	Dr. B. Vidhya, Assistant Professor	Applied Physics		
	Dr. A. Sakunthala, Assistant Professor	Applied Physics		
3	Dr. R. Philip Sridhar, Professor	Agriculture	Electronic device for mosquito eradication in septic Chambers	Culex Mosquito Trap
	Dr. P Rajalakshmy, HoD Associate Professor	Robotics Engineering		
	Dr. X Anitha Mary, Associate Professor	Robotics Engineering		
4	Dr. N.M.Siva Mangai, Associate Professor	ECE	Avoiding animal intrusion in farm lands by installing a fence mounted fiber optic sensor cables.	FIOPSE security
	Dr. D. Sugumar, Associate Professor	ECE		
5	Dr. T. Sujithra, Assistant Professor	CSE	Low cost device for smart traffic control systems by reducing the average waiting time of emergency vehicles in signals and also to address the problems in conventional traffic control systems.	Tecknolog
	Dr. P. Getzi Jeba, Associate Professor			
	Dr. S. Punitha, Assistant Professor			
	Dr.R.Manoranjitham Assistant Professor			
6	Dr. P. Jegathambal, Professor	Water Institute		
	Dr. K Indira Petchiammal, Assistant Professor	Agriculture		
	Dr. J. Srinivasan, Assistant Professor	Agriculture		

	Dr. Prawin Angel Mechael, Associate Professor	Aerospace Engineering	Treatment of textile dyeing effluent from small scale industries	Mayim Chayim
	Dr. Sabitha Jannet, Assistant Professor	Mechanical Engineering		
7	Dr. G. Hemalatha, Professor	Civil Engineering	Light-weight aggregate coated with nano cementitious material as a substitute for coarse aggregate.	Wall Architect
	Dr. S. Vincent Sam Jebadurai, Assistant Professor	Civil Engineering		
	Dr. E. Arun Raj, Assistant Professor	Civil Engineering		
8	Dr. P. Jegathambal, Professor	Water Institute	Agriculture residue management system	Mayim Chayim
	Dr. C. Mayilsamy, HoD / Professor			
	Dr.K.IndiraPetchiammal Assistant Professor	Agriculture		
	Dr. J. Srinivasan, Assistant Professor			
	Dr.TK. KumariSugitha, Assistant Professor			
	Dr. Susan Poonguzhali, Assistant Professor			
Dr. K. Aruna, Associate Professor	Commerce			
9	Dr. S Jebasingh, Assistant Professor	Mathematics	Introducing a New Cube puzzle (mind game) 2x2 and 3x3 Cube puzzle with Truchet contours	Qurios Minds Private Limited
10	Dr. M.Suguna Devakumari, Assistant Professor	Agriculture	Designing a cost effective portable nitrate analyzer for water with smartphone cameral and optical devices	Nitrate Sensor
	R. Alex Immanuel Jeyasingh,	I M.Sc. Agronomy		
11	Dr. S. Carolin Jeeva, Assistant Professor	Digital Sciences	IoT based water quality monitoring Real time monitoring of water quality - Automation and IoT	Water quality automation
	Dr. Suguna Devakumari M, Assistant Professor	Agriculture		
	Mr. Ryan Powell	Agri Student		
12	Dr. Sneha Gautam, Associate Professor			

	Dr. Hemalatha, Professor	Civil Engineering	Software for Language Editing Services for paper publication. This will be useful for scholars who wish to publish papers and articles.	Language Editing Services
	Dr. E Arunraj, Assistant Professor			
	Ms. Roshini P, Assistant Professor			
	Mr. Cyril Samuel, Assistant Professor			
13	Dr.DavidPaulRajRS, Associate Professor	Biotechnology	Traditional Herbal oil for pain relief Testing, validation and marketing.	Refuah Herbals
	Dr. Premnath D, Assistant Professor	Biotechnology		
	Dr. Sajan Kurian Professor, Dean SAS	Agriculture		
	Dr. Jebasingh, Associate Professor	Chemistry		
14	Dr. Suguna Devakumari M, Assistant Professor	Agriculture	Chitosan based domestic water filtration unit	-
	Dr.Praveena Katharine S Assistant Professor			
15	Dr. RitujaUpadhyay, Associate Professor	FPT	Commercialization of alternative protein products with low carbon footprint	Flavingred Products & Services Private Limited
	Ms. Sai Sathvika Moparthi(URK19FP1065)	FPT Student		
	Mr. Gokul Krishna L. (URK19FP1051)			
	Ms. Shyweta Kalokhe	External members		
	Mr. Vinnay Upadhyay			
16	Dr. Sugumar D, Associate Professor	ECE	Customized Antennas for next generation Wi-Fi	-
	Dr. Anita Jones Mary T, Associate Professor			
	Mr. Jebavaram J, Lab Technician Grade I			
17	Dr. Brema J, Professor	Civil Engineering	System and services to provide high quality geospatial mapping for Environmental and infrastructure projects	-
	Dr. Hemalatha G, Professor			
	Dr. R. Shanmathi Rekha R, Assistant Professor			
18	Mr. Gerard Joe Nigel K, Assistant Professor	Robotics Engineering	Anti-Theft Device for Fishing net	-
	Dr. Pamela D, Associate Professor	Biomedical Engineering		

19	Dr. Gobikrishnan S, Assistant Professor	FPT	Development of Probiotic based on millet to address cognitive impairment / (ADHD)	-
	Mrs. Suganthi R,			
	Ms. Jakki Vinuthna, (RRK21FP2003)			
20	Mr. B. Jai Ganesh, Assistant Professor	Management Studies	HR Recruitment Service	-
	Dr. J Clement Sudhahar, Professor & HoD			
21	Dr. J. Jaya Kumar, Professor	ECE	ZOE Cloud Services	-
22	Dr. J. Jaya Kumar, Professor	ECE	Smart System Development	-
23	Dr. TC. Kumari Sugitha, Assistant Professor	Agriculture	Innovative bio- formulations of plant- Probiotics for sustainable agriculture	-
	Dr. Indira Petchiammal, Assistant Professor	Agriculture		
	Dr AleyammaAlexander Assistant Professor	Nano science & Genomics		
	Dr. Nisha Malini, Assistant Professor	MBA		
	Dr. Philip Sridhar, Professor	Agriculture		
24	Dr.Jenita Thinakran, Professor	Agriculture	Plant-based protective valued added products	-
	Dr. Vimalin Hena, Assistant Professor			
	Dr. J. Ivan Wilson, Assistant Professor	FPT		
	Ms. Sherlee Singamala, Lab Technician Grade II	Agriculture		
	Ms.K. Jagadeeswari, (PRK21HC1021)	Student-M.Sc. Horticulture		
25	Dr. J. Sebastian Terence, Assistant Professor, CSE	CSE	Share 2 Care	-
	Mr. R. Sarathi			
26	Dr. Siva Mangai, Associate Professor, ECE	ECE	Abaya Security	Abaya Security

III. List of Industry Incubates

Sl. No	Names	Industry	Address	Theme/Product
1	Dr. Dileep Kumar. R	M/s Indriyam Biologics	Poojapura, Thiruvananthapuram, Kerala	<i>INDHAN</i> - A fully automated bio diesel processor <i>V-SENS</i> - Snake venom detection biosensor.
2	Mr. Varoon Damodaran	M/s Birchwood Pets	403, Suparshav, Sarvodaya Nagar, Nahur road, Mulund West Mumbai – 400080.	Pet Foods
3	Dr. G. Paul Robinson Gnanaraj	M/s Mapusoft Technologies	No: 60, Pasumai Nagar, Karunya Nagar, Coimbatore 641114.	Operating Systems
4	Mr. Santosh D	M/s. WisRight Tech Private Limited	No. A 105, AKS Sunstone Apartments, 1st Main Road, Aiswarya Nagar, Ayanambakkam, Chennai - 600 095.	Business Development with Internships
5	Mr. Renious Charles	M/s Truleaf Private Ltd	1A-1B Neem Square, KRG Nagar Main Street, Ganapathy, Coimbatore - 641 006	R&D of bakery products and multi varieties of breads