



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)



ANNUAL REPORT
2020-2021

With the Blessings of



Col. Dr. JEPPIAAR, M.A., B.L., Ph.D.
Founder Chancellor

Message



Dr. MARIAZEENA JOHNSON

B.E., MBA., M.Phil., Ph.D.
Chancellor



Dr. MARIE JOHNSON

B.E., MBA., M.Phil., Ph.D.
President

Sathyabama Institute of Science and Technology is a globally recognized Educational Institution with academic and research excellence. The Institution offers multi-disciplinary and holistic education to international standards. We believe that teaching and research are equally important for higher educational Institutions and over the years our institution has transformed into a research-intensive institution.

We are happy that Sathyabama is ranked in the 40th position among Universities in India by National Institutional Ranking Framework (NIRF) 2021. Our commitment to quality research, innovation and entrepreneurship has placed our Institution in the Top 5 position among the Private Universities in India according to ATAL Ranking of Institutions on Innovation Achievements, 2020 (ARIIA), an initiative of Ministry of Education, Government of India.

We certainly believe that our institution is moving towards the right direction, and the progress in the area of research and innovation for the Academic Year 2020-2021 is quite encouraging. We are glad to share some of the significant accomplishments of our Institution in the Annual Report, 2020-2021.

We acknowledge and appreciate the sincere efforts of our entire faculty, students and other staff that contribute to the development of the Institution.

Vice Presidents' message

Sathyabama Institute of Science and Technology has always been an Institution that supports and encourages research eco system. The world class research infrastructure available at the Institution facilitates and supports the ever progressing research activities. The teaching faculty and scientists working in the Research Centres are involved in high impact research that provides solutions to societal problems. We are happy to see the outcomes of the research as products, publications and patents. We appreciate the faculty and researchers for their persistent effort and wish them good luck for more impressive and remarkable performance in the years to come.

Mr J Arul Selvan

Vice President

Ms. Maria Bernadette Tamilarasi

Vice President

Foreword

We are proud to publish the “Annual Report, 2020-2021” which provides a brief overview of the research, innovation and skill development activities of our Institution. This Report is published not only to have a record of all our efforts and initiatives but also to keep our stakeholders informed about our activities, progress and achievements.

Every one of us has realized that teaching and research are inseparable components of education and quality research is the most important characteristic of a world class University. Sathyabama has instilled a culture of research and innovation among the faculty and students. Faculty are engaged with various research assignments like sponsored projects and consultancy projects, and the outcomes are evident as publications, patents, book chapters etc.

The Institution has developed a very good research infrastructure with excellent laboratories and advanced research facilities. Seed grant is provided by the Institution to faculty and students with innovative product ideas. The facilitating environment in the Institution has led to an increasing number of research publications. The Institution has around 11,000 Research publications Indexed in Scopus with an H- index of 73 and more than 5000 publications indexed in Web of Science with an H -index of 65. More than 300 Joint Publications are made as the outcome of the joint research with International Research Organizations and Universities. In the last one year there were 289 High Impact publications.

I would like to acknowledge the support of all the stake holders in the growth and development of our Institution. I express my sincere thanks to all the funding agencies, National and International collaborators and other supporting agencies, who are working with us to achieve our mission.

I take this opportunity to thank our management for their guidance and support in all our activities.

I thank the Teaching Faculty, Research Scientists, Partnering Institutions, Students and other stake holders for their support that makes our Institution to excel in research

Dr. T. SASIPRABA, M.E., Ph.D.

VICE CHANCELLOR

Steering Committee

- **Dr. T. SASIPRABA**, Vice Chancellor
- **Dr. E. LOGASHANMUGAM**, Pro Vice Chancellor
- **Dr. S.S.RAU**, Registrar
- **Dr. B. SHEELA RANI**, Director - Research
- **Dr. G. SUNDARI**, Director - Administration
- **Dr. S. IGNI SABASTI PRABU**, Controller of Examinations
- **Deans of all Schools**
- **Heads of all Departments**

Editorial Team:

- **Dr. A. Chitra Devi**, Associate Professor, Centre for Academic Partnership & International Relations
- **Dr. Preethi Sheshadri**, Associate Professor, Centre for Academic Partnership & International Relations
- **Ms. V. Lakshmi Priya**, Research Assistant, Centre for Academic Partnership & International Relations

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About Sathyabama

1 ABOUT SATHYABAMA

Sathyabama Institute of Science and Technology is one of the premier Higher Educational Institutions in India with a high reputation for teaching and research excellence. It is established under Sec.3 of UGC Act, 1956 and is been Accredited with 'A' Grade by the National Accreditation and Assessment council. The Institution offers 46 under graduate and 19 Post graduate Programmes in various fields including Engineering, Science, Technology, Law, Dental Science, Pharmacy, Nursing, Humanities and Management. Sathyabama has been conferred with 12B status by University Grants Commission which has made the Institution eligible to receive assistance from Central Government to undertake more sponsored research projects. This glorious Institution is functioning under the dynamic leadership of Dr. Mariazeena Johnson, Chancellor and Dr. Marie Johnson, President.

1.1 VISION AND MISSION

VISION AND MISSION



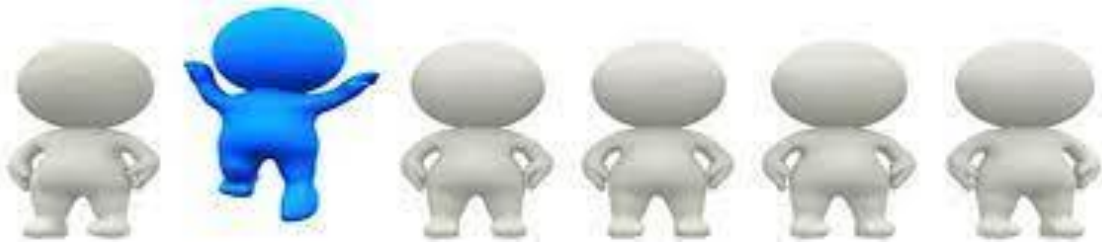
Vision of the Institution

- **We envision to be an Effective and Competent Source of technical manpower for the current and future Industrial requirements**

Mission of the Institution

- **Undertaking research & development activities in emerging thrust areas.**
- **Introducing new manpower Innovative courses based on the Industry & Societal demands**
- **Collaborating with National, International Institutes, research and development organization and Industries.**
- **Serving the community at large.**

OUR UNIQUE FEATURES:



1.2 HIGHLIGHTS

- 100+ Crores worth Funded Research Projects
- Centres of Excellence in thrust areas of research working towards Sustainable Development Goals
- 90+ Patents granted
- 200+ Patents filed
- International Visiting Professors
- International Research Students
- Involvement in Community Development Initiatives
- Technological Solutions to Sustainable Societal Development
- Incubation facilities for startups and promotion of entrepreneurship
- 200+ Overseas Partners/ MOUs with Industries
- 350+ Companies Visit Campus for Placements
- Students participation in Exchange, Semester Abroad, Internship Abroad Programmes
- Scholarship opportunities for International Students and Researchers
- World class Infrastructure- investment in Innovation infrastructure/ Advanced Facilities/laboratories

Rankings

2 RANKINGS

Sathyabama Institute of Science and Technology is consistently ranked among the top 50 universities in India, for the last six consecutive years. It has been ranked in 40th position among the Universities in India by the National Institutional Ranking Framework (NIRF), Government of India for the year 2021. It has been ranked among **Top 5 Private Institutions** in India for Innovation by ATAL Ranking of Institutions on Innovation Achievements (**ARIIA**) for the year 2020.

Times Higher Education has ranked Sathyabama among the top Institutions worldwide. The Institution has been positioned in good ranks in the Times Higher Education's Subject Ranking for Engineering and Physical Sciences, Emerging Economies Universities Ranking and Young Universities Ranking, for the year 2021.

Sathyabama Institute of Science and Technology is positioned in 51-55 ranks among the Indian Institutions by QS-India Ranking 2020. Sathyabama is awarded with four star ratings for Excellence by Quacquarelli Symonds (QS) and has received the maximum five star ratings for Teaching, Inclusiveness and Facilities and four star ratings for Employability and Innovation. QS I- Gauge, a rating for Indian Universities by QS has conferred Diamond Ratings on Sathyabama. The Institution has been ranked in 301-350 position by QS Asia University Rankings 2021.

Sathyabama Institute of Science and Technology has been awarded with `E-LEAD (E-Learning Excellence for Academic Digitization) Certification by the QS I-Gauge, the global rankings and ratings agency. The Institution is assessed on various parameters like efficient usage of IT infrastructure, adequate IT support systems and IT policy and is certified for its preparedness to conduct Teaching& Learning activities online.

Sathyabama is placed in very good positions in Times Higher Education Impact Rankings 2021. Recognizing the significant contribution of the Institution towards reducing inequalities (SDG 10), climate action (SDG 13) and Partnership for goals (SDG 17), Sathyabama has been ranked in 201 – 300 positions among the Universities worldwide. The Institution has been ranked in

301-400 position for SDG01 – No Poverty. Sathyabama’s overall position is 601-800 among the world Universities according to the Times Higher Education Impact Rankings, 2021.



India Today has ranked the Institution in the 22nd place among the Top Private Engineering Colleges as well as Top Private Universities in India and ranked in the 4th position among the Best Private Universities in Tamilnadu for the year 2021.

India Today has ranked our Architecture Department in the 20th place and Outlook Magazine has ranked in 19th place, among the India's Best Colleges offering Architecture Programme for the year 2021.

Times of India has Ranked Sathyabama in No. 3 position among the Top private Engineering Institutions in India, and No. 11th position in Top Research Institutions in India.

The Institution is ranked in No. 3 position among the Top Non-Government (Private & Deemed) Multi-Disciplinary Universities - South Zone according to THE WEEK Survey, 2021



SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
RANKINGS & RECOGNITIONS

Ranking by National Organisations

- nirf** NATIONAL INSTITUTIONAL RANKING FRAMEWORK
Ranked among the Top 50 Universities in India
- AICTE** Approved by AICTE
- UGC** University Grants Commission
Conferred with 12B status
- NBA** NATIONAL BOARD OF ACCREDITATION
Programmes Accredited with NBA
- ARIIA** ATAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS
Ranked # 5 among the Private Institutions in India
- E-LEAD** Excellence for Academic Digitisation

Ranking by International Organisations

- QS I-GAUGE** INDIAN UNIVERSITY RATING DIAMOND
Diamond Rating by QS I-Gauge
- FICCI**
Best University
Excellence in Faculty
Excellence in Employability
Excellence in Enabling Research
- THE WEEK**, **CAREERS 360**, **DATAQUEST**, **OUTLOOK**, **INDIA TODAY**, **EducationWorld**, **TIME'S ENGINEERING**
- QS STARS** RATING SYSTEM 2019 ★★★★★
Rated 4 Stars for Excellence
- RANKED ASIA** 2021
Among Top 350 Institutions in Asia by QS Ranking
- THE WORLD UNIVERSITY RANKINGS**
World University Rankings
Subject Rankings
Asia Rankings
Young University Rankings
Emerging Economies Rankings

Research at Sathyabama

3. RESEARCH AT SATHYABAMA

Sathyabama Institute of Science and Technology is one of the Academic Institutions that gives more emphasis to research as it is aware of the significance of research for sustainable growth and development. To address the global challenges with respect to social, economic and environmental issues, the Institution is involved in breakthrough research and innovation in the thrust areas of Science and Technology.

Quality education and research are the twin objectives of the Institution that goes hand in hand. It has made huge investments in building research infrastructure, which is indication of its commitment to research. Sathyabama has 2 research parks namely International Research Centre and Col. Dr. Jeppiaar Research Park to translate innovations into product and technology.



Fig. 3.1. International Research Centre



Fig. 3.2. Col. Dr Jeppiaar Research Park

These 2 research parks house Research Centres carrying out research on almost all the major areas of science and Technology. The centres include,

- ☆ Centre for Nanoscience and Nanotechnology
- ☆ Centre for Energy Research
- ☆ Centre for Ocean Research
- ☆ Centre for Space Technology
- ☆ The Centre for Bioresource Research and Development
- ☆ Centre for Earth and Atmosphere Science
- ☆ Centre for Remote Sensing and Geoinformatics
- ☆ Centre for Robotics and Automation
- ☆ Centre for Quality Assurance and Non-Destructive Evaluation
- ☆ Centre for Waste Management
- ☆ Centre for Molecular and Nanomedical Sciences
- ☆ Centre for Laboratory Animal Research
- ☆ Centre for Climate Change Studies
- ☆ Centre for Drug Discovery and Development
- ☆ Technology Business Incubator

3.1 SPONSORED RESEARCH

The Institution is involved in sponsored and collaborative research projects worth more than 100 crores, funded by National Organizations like MoES, DST, DBT, MOEF, ISRO, DRDO, ICMR, UGC and AICTE. For the year 2020-21, 17 new projects worth around 5 crores have been sanctioned.

3.2 RESEARCH FOCUSING ON SUSTAINABLE DEVELOPMENT GOALS

Research at Sathyabama addresses the Sustainable Development Goals of Agenda 2030. The following are some of the research directions the Centres are focusing in

Centre for Drug Discovery and Development and Centre for Molecular and Nanomedical Sciences are working towards SDG-3 Good Health and Well-being. They are focusing on research to discover novel drugs to fight against life threatening infectious diseases including tuberculosis (TB), Acquired Immuno Deficiency syndrome (AIDS), Dengue and non-infectious diseases including Alzheimer's disease, cancer and diabetes.

Centre of Excellence in Energy Research and Centre for waste management are involved in research projects and initiatives that addresses SDG 7- Affordable and Clean Energy. Centre of Excellence in Energy Research funded by MHRD, working towards finding sustainable solutions to the need for energy without affecting environment and due concern for reducing the carbon print. Centre for waste management is involved in finding alternative energy through bio sources. It has come out with a biodiesel from waste cooking oil and bio fertilizers from food waste.

Centre for Waste management is working towards the achievement of SDG 12-Influence Responsible Consumption and Production. The Centre carries out research in the area of waste management, and promotes the 3 R concepts -Reduce, Reuse and Recycle to minimize waste generation. This Centre organizes programmes to create awareness about the consequences of consuming more and more products without considering the concept of repair, reuse and recycling.

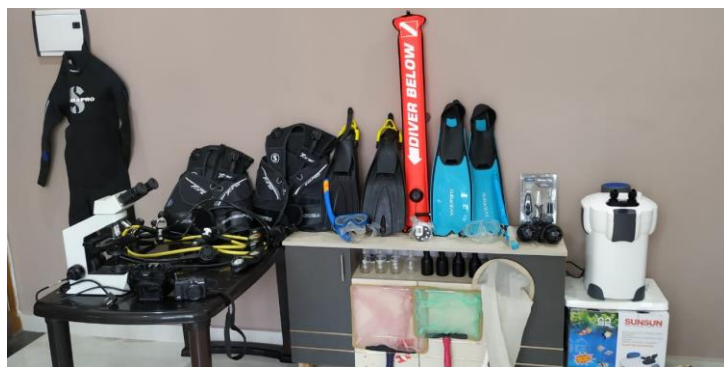
Centre for Climate Change Studies is involved in research addressing SDG 13- Climate Action. The Centre monitors marine organisms associated to various ecosystems like Coral reefs, Seagrass meadows, Intertidal zones and Mangrove ecosystem in selected coastal sites, to study the impact of global climate change on aquatic ecosystems.

Centre for Ocean Research is working towards SDG 14- Life below Water. Conservation and sustainable use of oceans, seas and marine resources for sustainable development. Research in Mariculture, Marine Technology and Engineering, Marine Ecology, Marine Nanotechnology, Marine Biotechnology, and Marine Education are the focus areas of research of this Centre.

Centre for Remote Sensing and Geoinformatics is involved in research in the areas including resilience and adaptive capacity to climate related hazards, disaster preparedness against flood related disasters through Geospatial technologies.

3.3 MARINE RESEARCH STATION

Apart from the Research Centres within the campus, Sathyabama Institute of Science and Technology has a Marine Research Station at Rameswaram to encourage research on cutting-edge marine ecology and climate change. The research station is helpful to conduct and organize studies related to the coastal and marine biodiversity conservation, and to understand the impact of anthropogenic stressors on



the marine ecosystems and associated organisms in the Gulf of Mannar and Palk Bay region. The marine station is successfully functioning with the support of the state forest departments, fishery department, NGO's and coastal communities and creates awareness among youths towards marine conservation.

3.4 TECHNOLOGY BUSINESS INCUBATOR

Sathyabama's Technology Business Incubator funded by NSTEDB – DST is involved in the development and promotion of entrepreneurship in Marine Bio-Resource Utilization, Engineering and Technology, Biotechnology and allied products and Waste Management. TBI has been instrumental in supporting many incubatees and their transformation into successful entrepreneurs

Sathyabama Institute of Science and Technology is devoted to the cause of developing Strategies in the field of Research that leverage their existing strength to support the Technology Business Incubator. The Technology Business Incubator has a modern working space with latest research and development facilities needed in identified areas of Marine Bioresource Utilization, Engineering and Technology and Bioproduct development.

Technology Business Incubator extends the following services to the incubatees:

- Venture Financing
- Training and Mentoring
- Networking with bankers, venture capitalists and angel funding agencies.
- Technology Training Centre
- Prototype Development and Testing
- Investors/Industry Consultation
- Providing Specialized services to existing entrepreneurial ventures of the region
- Facilitating Technology Commercialization
- Consultancy and Training and Short Courses in the required Field
- Technology related IPR issues, legal and quality assurance services.
- Assistance in Marketing of Produce. Technology Exhibition, awareness camp and entrepreneurial development.

TBI also facilitate several other startups of students. Students with entrepreneurial drive are encouraged to come up with new and innovative business ideas. The feasible ideas are selected and all the above mentioned supports are provided till the incubatee develops into a full-fledged self-sustaining entity. The incubatees can use all the resources and facilities that are available

within the campus. They can access library, laboratory, research centres and use the space, electricity, water and other essential facilities.

3.5 MOES - EARTH SCIENCE & TECHNOLOGY CELL

Earth Science & Technology Cell (ESTC) is a network project which focuses on Marine Biotechnological Studies was inaugurated by Dr. M. Rajeevan, Secretary, MoES at Center for Ocean Research, Sathyabama Institute of Science and Technology (SIST), Chennai. The objective of the MoES-ESTC is aligned with the sustainable development goals (SDG), to augment marine living resources and marine biotechnology. The cell works in collaboration with Centre For Marine Living Resources & Ecology (CMLRE) & National Institute of Ocean Technology (NIOT) to identify the R&D requirements and to fulfill the gap to develop potent marine bioactive products; to establish collaboration between National and International Institutions; and to create infrastructure facilities related to advanced research in marine biotechnological studies.



3.6 HYDRO METEOROLOGICAL WEATHER STATION

Hydro Meteorological Weather Station is an initiative of Centre for Remote Sensing and Geoinformatics which is used to observe land surface and lower atmospheric parameters over long period of time for micrometeorological observations. Cutting edge technology which includes data synthesizing hub, sensors, solar based power supply and GPRS communication network enables remote access of data under extreme weather conditions. The indigenously built station is used for applications viz weather monitoring, flood monitoring, irrigation scheduling and water management.



3.7 PUBLICATIONS

The Institution has shown a remarkable performance with respect to publications by bringing out internationally acclaimed research publications. The Institution has around 11,000 Research publications Indexed in Scopus with an H- index of 73 and more than 5000 publications indexed in Web of Science with an H -index of 65. More than 300 Joint Publications are made as the outcome of the joint research with International Research Organizations and Universities.

The Institution has made 289 High Impact publications this year, with highest being 14.98 impact factor publications, in Journal of Renewable and Sustainable Energy Reviews by the Scientists of Centre of waste management for developing the value-added products from Biomass.

3.8 AWARDS AND RECOGNITIONS

- Centre for Ocean Research is identified as TIFAC Academic Partnership (TAP) Centre for the augmentation of Aquaculture Industrial Sector by Department of Science & Technology, Govt. of India .
- Scientists from Centre for nanoscience and Nanotechnology and Ural Federal University (Russia) have jointly developed a novel method for industrial scale production of Quaternary Nanocomposite for diverse applications.
- Centre for Ocean Research is awarded with prestigious Takeda Science Foundation Fellowship Award to jointly work with National Institute of materials Science, Tsukuba, Japan.
- Very glad to mention that Our faculty have been selected as Mentors of Change by Atal Innovation Mission and the mentors affiliated with Sathyabama Technology Business Incubator are awarded to represent them as Mentors of Change (MoC) and Regional Mentors of Change (RMoC) for the Government of India's flagship programme of Atal Tinkering Labs, a strategic nation-building program established by Atal Innovation Mission (AIM) of NITI Aayog, Government of India.
- Sathyabama TBI has been recognized as the Nodal centre for "Innovation, creativity and Entrepreneurship" by Atal Incubation Centre, RAISE.

- Sathyabama TBI has been selected as one among the Top 12 incubators in the “Scaleup: incubators” programme initiated by StartupTN, Govt of TamilNadu.
- One of our Sathyabama TBI incubatees – CZ Smart Mobility has been recognized as Emerging / Budding Entrepreneurs by MSME, Government of India.
- Centre for Earth and Atmospheric Science and Centre for Climate Change studies has been identified by National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India, to train public on “Basic Principles of Disaster Management”
- State-of-art Micro level Research Facility for Surface Meteorological studies is being established by Centre for Remote Sensing and Geoinformatics.
- We have received financial grant from AICTE for the study tour of ATAL TUNNEL under the AICTE’ (Yuvak) -Youth Undertaking Visit for Acquiring Knowledge Scheme

3.9 FELLOWSHIPS AND GRANTS

- The researchers at Sathyabama have bagged several fellowships that include DST -OVDF under Indo- Purdue Initiative, Korean Research fellowship, European Research Council Fellowship, Indo Japanese Young Research Fellowship, ICMR- DHR International Fellowship.
- Our faculty members and students have received seed funding from the Institution to the tune of 35 Lakhs to develop products and as an outcome, 15 products are now ready for commercialization.
- Our faculty members and students have received Start Up Fund from Sathyabama -TBI to the tune of 15 Lakhs to develop innovative products, 20 products are now Minimum Viable Products (MVP).

3.10 INFRASTRUCTURE AND FACILITIES ESTABLISHED

- The School of Electrical and Electronics Engineering has established a Remote lab for Analog integrated circuit laboratory through which the students can access real hardware present in the lab and perform experiments, using their laptops or mobile phones from anywhere anytime.

- School of Computing has initiated PRIDE- “Project Innovation & Development Centre”, a pre incubation Centre to nurture the culture of innovation and entrepreneurship in order to facilitate more incubates from the Institution.
- School of Mechanical Engineering has established Rapid Prototyping Lab with 3D printers to encourage more projects towards Additive manufacturing

3.11 PARTNERSHIPS AND COLLABORATIVE ACTIVITIES

- 2 Fellows from Indonesia have acquired grants to visit Sathyabama under ASEAN-India STI Cooperation approved by DST for a period of six months, to pursue research under the Mentorship of the Physics faculty of Sathyabama.
- Our Institution has partnership with more than 150 International Universities and 50 Industrial organizations for research collaborations, faculty and student exchange, internship programs and training.
- 21 MoUs with international Universities and 18 MoUs with Industries were signed in the last academic year.
- Erasmus Plus agreements have been signed with Transylvania University of Brasov, Romania and Wszechnica Polska University in Warsaw, Poland for executing European Union funded student and staff mobility programmes.
- The Institution has organized 6 joint International Conferences with partnering Universities across the globe.
- MHRD-SPARC Supported One Day International Colloquium on “Challenges and Impact of COVID-19 on Tuberculosis” has been Organised by CDDD, Jointly with School of Biological Sciences, Nanyang Technological University (NTU), and Singapore. This program is conducted in commemoration of World TB Day.
- ToPNET-Singapore, MHRD-SPARC, Ministry of Education- Government of India and Prime Minister Office of Singapore Supported the International Conference on New approaches to Tuberculosis Drug Discovery Jointly Organised by CDDD, with School of Biological Sciences, Nanyang Technological University (NTU), and Singapore. More than 400 Scientists, Researchers, Clinicians from 270 National and International Institutes from 40 countries took part in the program.

- With respect to outbound mobility, 42 students from the Department of management Studies have completed virtual Semester Abroad Programme at UNIS Brazil, 28 students from the Department of Mathematics pursued courses at Universiti Teknologi MARA, Malaysia and 1 student from the Department of Computer Science attended an online Summer School Programme at Asia University , Taiwan.
- With regard to inbound virtual exchange programme 28 students from Wollo University, Ethiopia pursued one semester in the Department of Mechatronics. 2 students from Daffodils International University pursued one semester in the Department of Computer Science.

3.12 OUTREACH

- The institution has adopted 21 schools and 5 villages. Awareness on various prevailing social issues is being conducted periodically by our students and we have addressed the infrastructural and academic needs of the schools.
- Sathyabama participates in many of the Government Initiatives and eleven projects are selected for funding under the Unnat Bharat Abhiyan Scheme of MHRD, under which technological solution are provided to problems faced by villages.
- Sathyabama has contributed Rs. 50, 00,000 towards Chief Minister's Relief Fund on 12th May, 2021. This is addition to one Crore which was given in 2020.
- Sathyabama's General Hospital and Hostels have been used by Chennai Corporation to quarantine Covid Patients.

3.13 INSTITUTIONAL SEED GRANT

To promote a culture of research and innovation among faculty and students, Sathyabama provides Seed Grant. Innovative ideas that provide solutions to the societal problems in the areas such as Agriculture, Healthcare, Energy and Waste Management will be funded. For the year 2020-21 our faculty members and students have received seed funding from the Institution to the tune of 35 Lakhs to develop products and as an outcome, 15 products are now ready for commercialization.



SathyabamaOfficial



SathyabamaOfficial



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Major Research Facilities

4. MAJOR RESEARCH FACILITIES

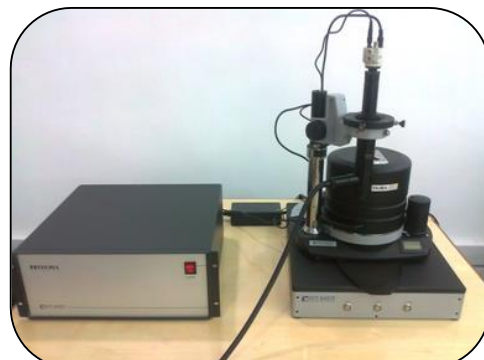
Sathyabama Institute of Science and Technology has world class research facilities that complement and augment the research strength of the Institution. Research Facilities includes laboratories and Equipment with advanced technologies.



**XRD-SMART Lab (9 kW)-
Rikagu, Japan**



**FESEM (Supra 55)
Carl Zeiss Germany**



AFM-Ntegra Prima – NTMDT, Ireland



**Upright Microscope ,Model BX51,
Olympus, Japan**



**Inverted Metallurgical Microscope, Model
GX71, Olympus, Japan**



**Epifluorescence Microscope-
ECLIPSE 80i,Nikon,Japan ²**

Characterization Equipments at the Centre for Nanoscience and Nanotechnology



Thermal Evaporation Unit



**DC Magnetron Sputtering System
Model 12" MSPT Box type**



**Pulsed Laser Deposition (PLD)
Make: Microtech, SRL Italy**



**E-Beam Evaporator-
Plassys, France**



**RF/DC Magnetron Sputtering System (MP 300 Sputter System-
Plassys, France)**



Chemical Vapor Deposition (CVD)



Spin Coater- SCU-2008C

1

Centre for Nanoscience and Nanotechnology (Materials Research)



**DEKTAK XT Stylus Profiler-
Bruker, USA**



**UV VIS Spectrometer, Jasco
International, Japan**



**Potentiostat/ Galvanostat
with Impedance Analyzer- Bio-Logics,
France**



**Hall Effect Measurement Unit-
Ecopia Corp. South Korea**

3

Characterization Facilities at Centre of Excellence for Energy Research



**NANOMEDICINE &
DRUG DISCOVERY LABORATORY**



ROTATORY MICROTOME



ICE FLAKER (TELSTAR)



Stereo Fluorescence Microscopy



MULTI MODE PLATE READER



BIO ANALYZER

5

Characterization Facilities at Molecular & Nano medicine Research Unit

Bio-Chemical Facilities at Centre for Waste Management





2D Gel Electrophoresis



Thermal Cycler (PCR)



Fourier-transform infrared spectroscopy (FTIR)



Gel Documentation System



Millipore Unit



Gas Chromatography and Mass Spectrometry (GC-MS)



Inductively Coupled Plasma Mass Spectrometry (ICP-MS)



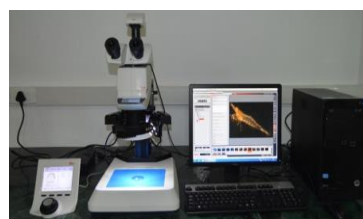
Inverted fully automated fluorescence Microscope



Spectrofluorometer



UV visible Spectrofluorometer



Fully Automated Stereo Zoom Microscope

Major Facilities at Col. Dr. Jeppiaar Research Park



**Lyophilizer,
Martin Christ Germany
funded by ECR-SERB DST
sponsored project**



**RENISHAWinVia Confocal Raman
microscope (United Kingdom)
funded by Sathyabama Institute of
Science and Technology**



**GPS, Metrological Humidity Temp.
Probes, Wind speed sensors
funded by Sathyabama**



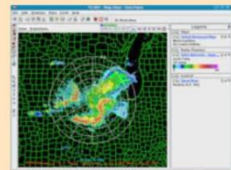
**Digital Ultrasonic Flaw Detector,
Magnetic Particle Testing Equipment,
calibration blocks and flawed
specimens, Dye penetrant Testing kit &
flawed specimens, Radiography
accessories funded by Sathyabama**



**ArcGIS (5 user pack)
funded by Sathyabama**



**FMS -2 Pulse Modulated
Chlorophyll Fluorometer funded
by DST-SERB**



**ENVI 10 user license, ArcGIS (5 user pack)
Dell Optiplex 8th Gen System, Solo + MIA
(Standalone) platform windows
funded by Sathyabama**



**Temp Controlled Shaker
funded by DBT Marine Biotechnology
Taskforce Project**



**Hydrophone, Cooling centrifuge, Water
Quality Multiparameter, Air sampler,
funded by Sathyabama**



**Class II Biological Safety
Cabinet
funded by SATHYABAMA**



Bottle filling machine



**Total Organic Carbon (TOC) Analyser
funded by Sathyabama**



Retort Pouch packing, Vacuum sealing



**In situ High-Temperature Oxidation
Analysis Furnace
funded by LPSC, ISRO**



**Linear Reciprocating
Tribometer (LRT)
funded by DST-SERB**



Tubular Reactor

ANIMAL RESEARCH FACILITY

Facility for Lab Animal Research



1



2



3



4



5



6



7



8

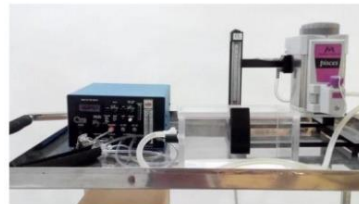
1. Fully automated Analyser
2. Flurosent Microscope
3. Inverted Microscope
4. Blood Cell Counter
5. -80 Deep Freezer
6. X-Ray Unit
7. Cage Sterlizer
8. Clean corridor
9. Operation Theatre
10. Surgical Microsope
11. Succition apparatus
12. Anaesthetic Ventilator



9



10



12



11

4.1 RESEARCH FACILITIES CREATED / UPGRADED IN 2020-2021

4.1.1 SATHYABAMA REMOTE LAB

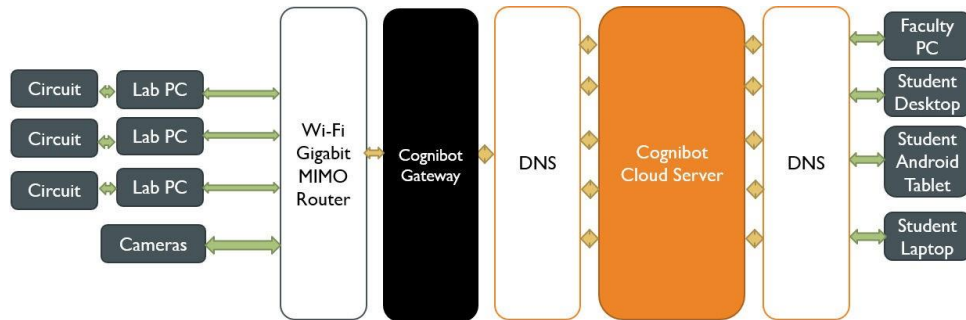
Engineering is more about hands-on experimentation than about theory. In the present scenario, engineering educators are faced with a unique challenge – delivering high quality education without compromise, even when the students are unable to be physically present at the campus.

To meet this challenge, a remote lab is newly established in the Institution. Remote labs are real labs with real hardware that can be accessed and controlled over the internet. Sathyabama Remote Lab enables the students to access real hardware and perform experiments from anywhere in the world. Students can use a computer or a mobile device to control the experiments and get the output at a remote place. The students and faculty members can access real circuits in the lab, manipulate the inputs to the circuit and obtain the actual readings from those circuits.

Unique Features

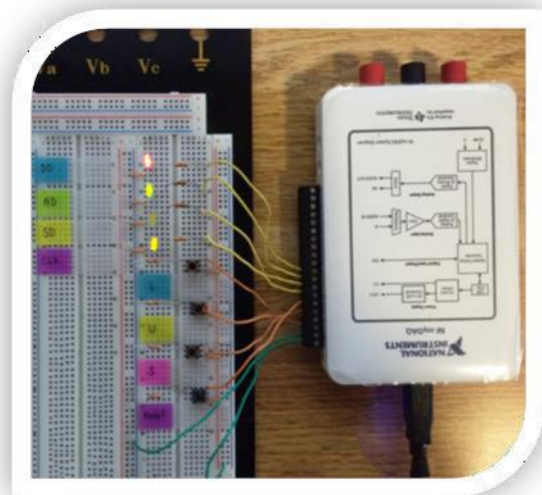
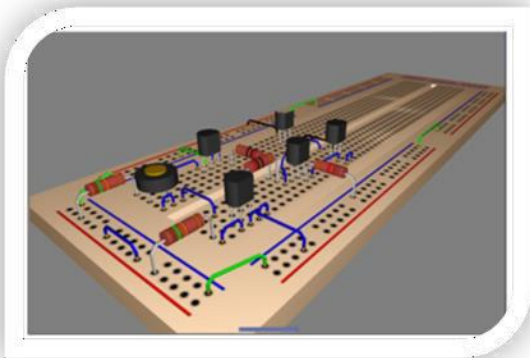
- All experiments will be accessible from anywhere in the world
- Students can view, control and take readings from actual circuits in the lab
- Remote Labs can be available 24x7
- Automatic result submission

ARCHITECTURE



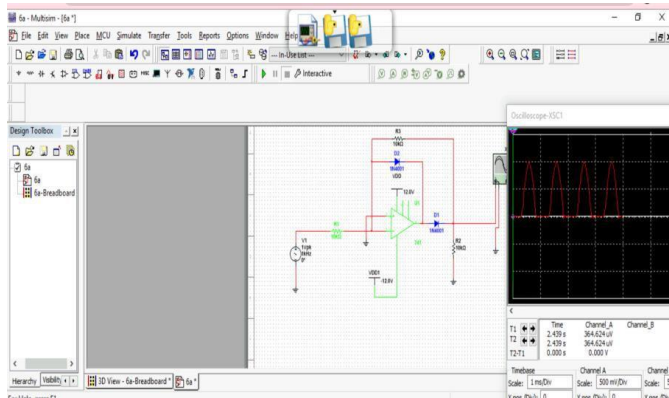
PROCESS

1. Students' login into the Remote Lab website using their username and password
2. They can go through the experiment manual
3. They can implement the circuits on Multisim and simulated breadboard
4. They can control real circuits through hardware and acquire results while watching the circuits on live video streams
5. Results are submitted to the server for evaluation
6. Faculty members can login using their login credentials and evaluate the reports submitted by students



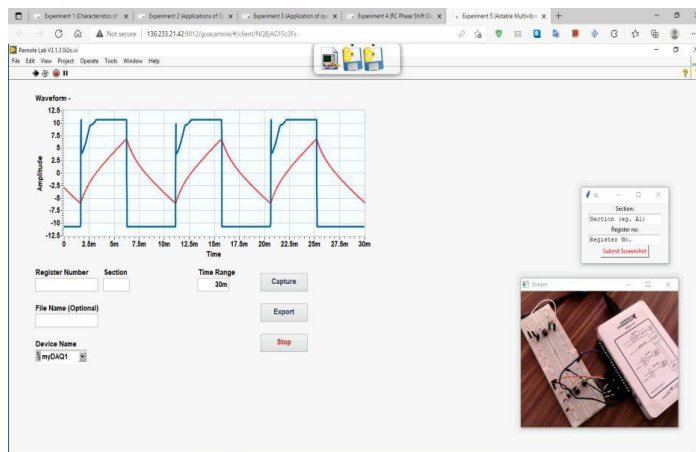
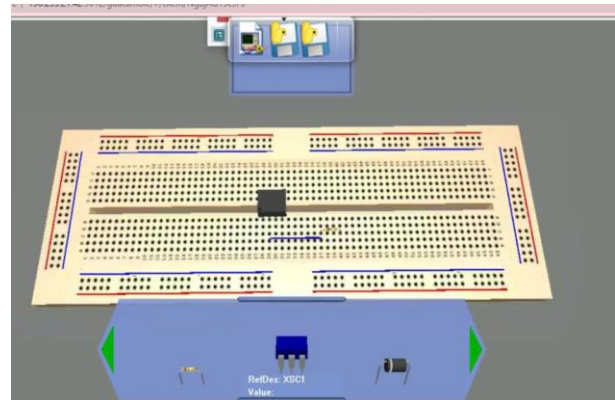
SATHYABAMA REMOTE LAB FLOW

- Circuit Simulation using Multisim
- Breadboard simulation(3D View)
- Remote access of Real Hardware



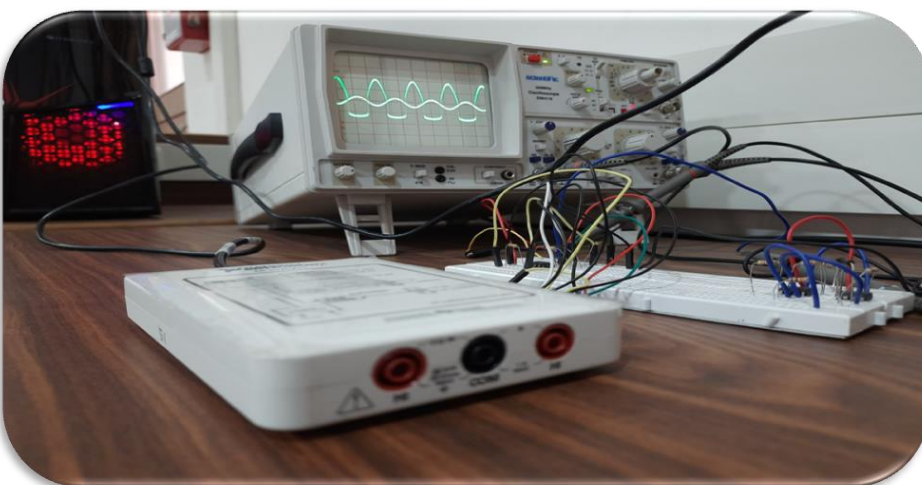
Circuit Simulation using Multisim

Breadboard simulation (3D View)



Remote access of Real Hardware

SATHYABAMA REMOTE LAB



**4.1.2 MoES-ESTC – Earth Science Technology Cell
(Marine Biotechnological Studies)**

EQUIPMENTS



Zebrafish Housing Unit



Cell Counter



**Continuous Flow Through
Proportional Diluter**



Microtome



Wettability Test Apparatus



Luminometer



Axiobio Microscope – Fluorescence



Ultra Centrifuge



Vacuum Oven



SS Extraction unit



Nanoparticle size and Zeta potential



Hot air Owen



Upright trinocular microscope



Microfuge-Minispin



Biosafety Cabinet



ELISA Reader



Cooling Centrifuge



Osmometer



CO₂ incubator



**Inverted Phase Contrast
Microscope**

4.1.3 PROJECT INNOVATION & DEVELOPMENT CENTRE (PRIDE)



Pre-incubation unit

Project Innovation and Development Centre (PRIDE)

- A Pre - Incubation Unit

School of Computing has started an “Project Innovation & Development Centre” for nurturing and overseeing innovation and entrepreneurship. The aim is to encourage Students and entrepreneurship among locals with the colleges serving as focal points. It is a platform for nurturing, encouraging and developing innovation and entrepreneurial skills among its students, research scholars and alumni, as well as students of the region.

OBJECTIVE

- To nurture a culture of innovation at campus.
- Helping ideas to translate into reality and upgrade them to the level of commercial value.
- To create a startup ecosystem at campus.
- To encourage solving real problems.
- To create value added Products, patents
- To Interact with National and International Collaborative Project in Real time Innovation.
- Impairing the technique with the students’ community.

SALIENT FEATURES

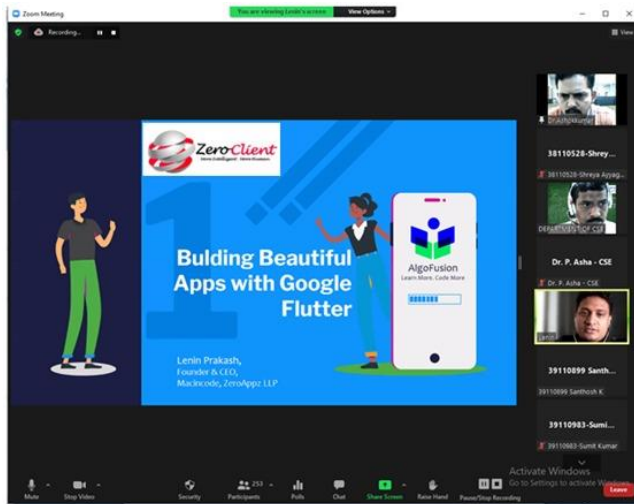
- To encourage Entrepreneurship and innovation and incubation of ideas.
- Each project will be executed by a team of entrepreneurs (Students/Alumni/ Industry)
- Each project will be given infrastructural support and expert mentorship.
- The problem can be from any discipline but one should provide an IT solution to the selected problem.
- To facilitate the students to get internships, projects, professional training.

DESIRED OUTCOMES

- Improve Industry - Institute Collaboration
- Encourage Inter Departmental Innovative Project Ideas from Students (Startup Ideas - Seed Money from Outside / Public)
- Ideas Can be Converted into Consultancy Project
- Domain Specific Products can be Developed.
- The Students can do their PT-1 and PT-2 in that Particular Domain and prepare them self towards their Project
- Team of Students can bid for Online Projects which can be Later make them become as self-reliant.
- Students can also Find Good Industry People and Do Projects with Them.
- Create promotional interventions as project proposals at national, international level.

EVENTS & INITIATIVES OF PRIDE

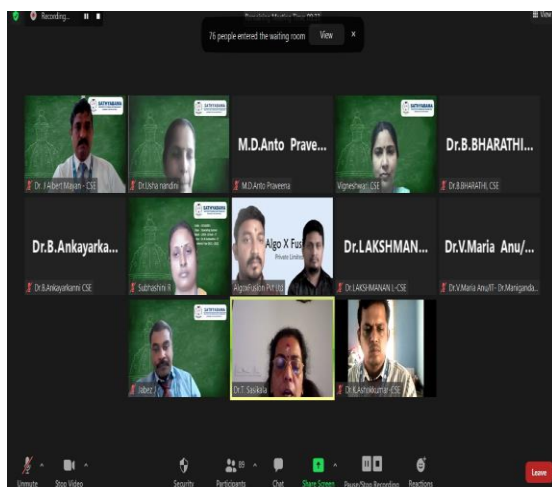
Conducted 17 various technical certification courses such as Data analytics, Machine Learning, AngularJS, React JS, Flutter Mobile app Development, software testing, Robotic Process automation, Cloud Computing, Gaming Technology, Cyber Security, Etc.,



OUR PARTNERS



MoU signed as part of Industry Institute collaboration with the companies like AlgoXfusion, Credo Systemz, Cognibot, Arena Multimedia.



Received consultancy projects worth of Rs.13 lakhs through PRIDE Project proposals. Encouraged students to bring up the innovative products as part of the projects.

Organized 2weeks Short Term Training Programme (STTP) on Web Scrapping and Designing. Initiative taken for setting up the Artificial Intelligence and Machine learning Lab.

SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

School of Computing
Department of Computer Science and Engineering
&
Project Innovation and Development Centre (PRIDE)
In association with ACM

2 weeks Short Term Training Programme (STTP)
On HTML , CSS and Java script

From Nov 29, 2021 to Dec 13, 2021

Resource Person :Mr.Praveen kumar
CEO, AlgoxFusion Pvt. Ltd.

Chief Patrons
Dr. Mariazeena Johnson, Chancellor
Dr. Marie Johnson, President
Mr. J. Arul Selvan, Vice President
Ms. Maria Bernadette Tamilarasi, Vice President

Patron
Dr. Sasipraba, Vice Chancellor

Convenors
Dr. T. Sasikala, Dean, School of Computing
Dr. L. Lakshmanan, Head, Dept. of CSE
Dr. S. Vigneshwari, Head, Dept. of CSE

Coordinators
Dr. K. Ashok Kumar, Associate Professor, CSE
Dr. J. Albert Mayan, Associate Professor, CSE
Dr. S. Dhamodaran, Assistant Professor, CSE
Dr. B. Anjayaramani, Associate Professor, CSE
M.M.D. Komath, Assistant Professor, CSE

Register here : <https://bit.ly/3cubp6T> Time :5.30 Pm to 7.30 Pm
* First come first serve basis selection.
The Selected candidates will be intimated via mail/whatsapp with zoom link credentials



Started an OWASP sathyabama Student chapter for cyber security and through which Encouraged students to participate in national level Hackathon in cyber security. Our students have won third and fourth prize in the Pan India Hackathon held.

Initiates to start the ACM student chapter and ACM- women chapter.

SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

SCHOOL OF COMPUTING
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
Proudly Inaugurates
**OWASP SATHYABAMA STUDENT CHAPTER
(CYBER SECURITY)**

DATE: 2nd Dec , 2021
TIME: 11:30AM

Event is conducted through zoom

Mr. Kishore Hariram
Security Service Consultant
OWASP Thiruvallur
Synopsys India Private Limited

Chief Patrons:
Dr. Mariazeena Johnson, Chancellor
Dr. Marie Johnson, President
Mr. J. Arul Selvan, Vice-President
Ms. Maria Bernadette Tamilarasi, Vice President

Patron:
Dr. T. Sasipraba, Vice Chancellor

Convenors:
Dr. T. Sasikala, Dean, School of Computing
Dr. L. Lakshmanan, Head, Department of CSE
Dr. S. Vigneshwari, Head, Department of CSE

Chapter - Coordinators:
Dr. S. Dhamodaran, Assistant Professor, CSE
Dr. J. Albert Mayan, Associate Professor, CSE

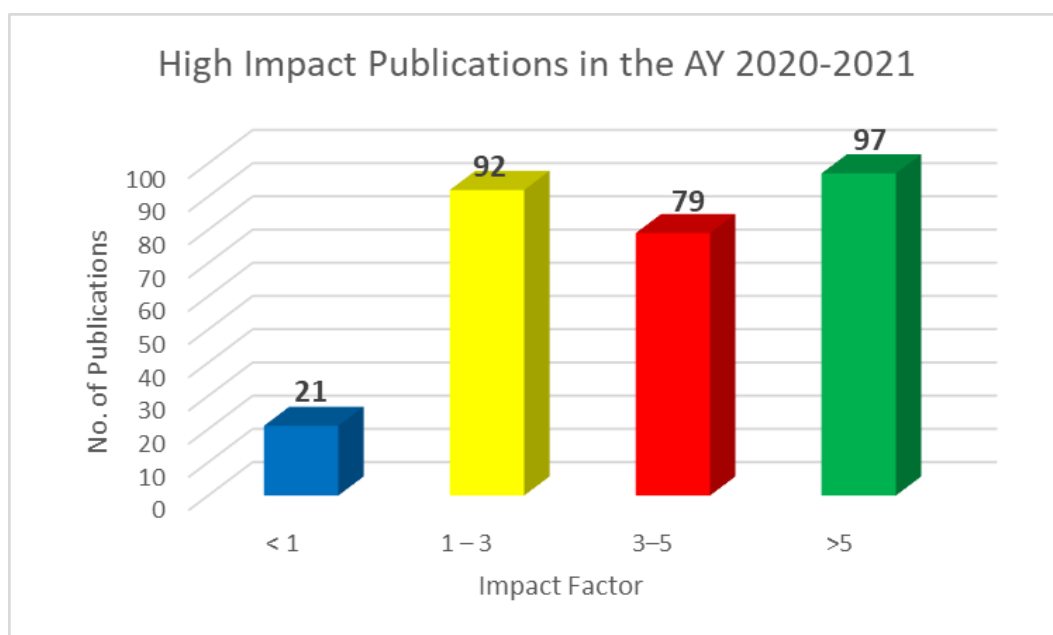
Student Chapter Leader:
Mr. Hasan Firmas
Mr. Soyan Pramanik

High Impact Publications

5. HIGH IMPACT PUBLICATIONS

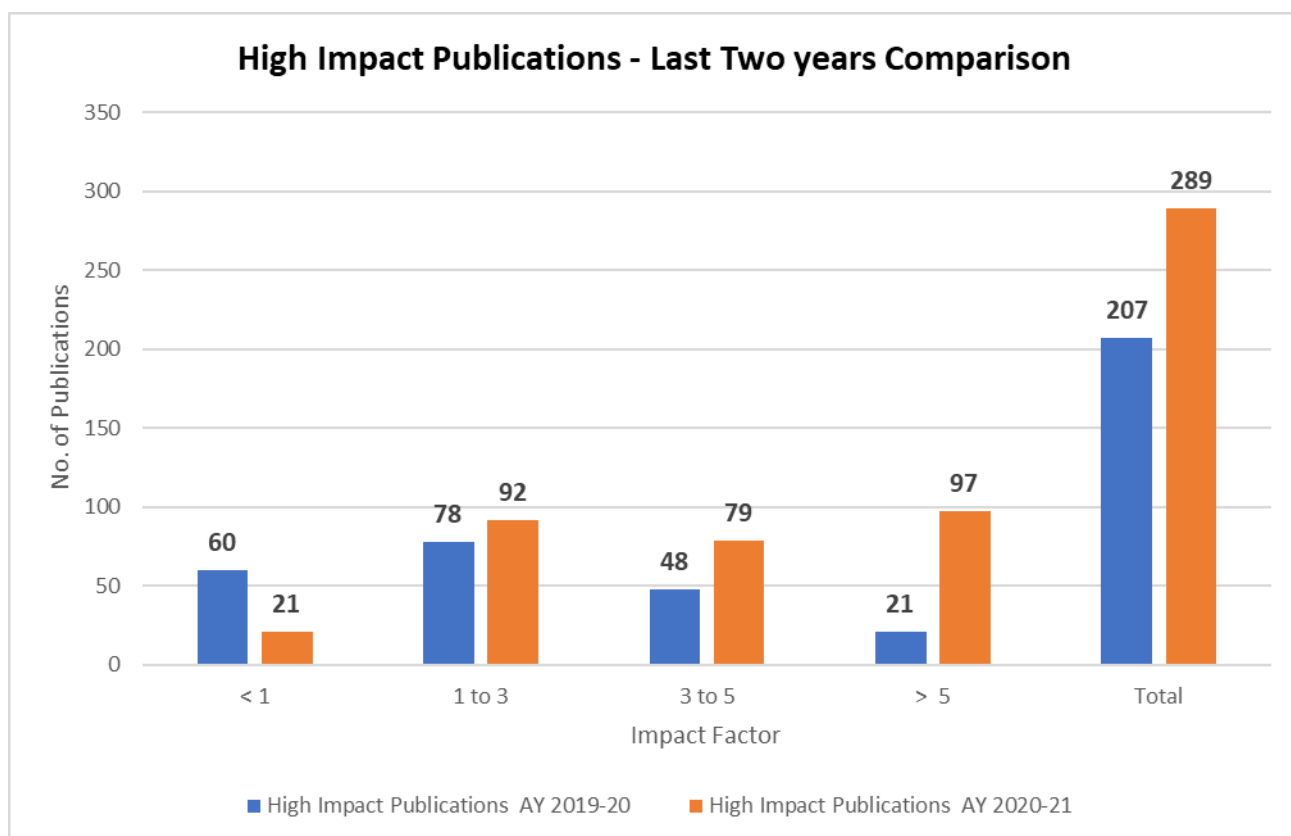
On research front, the University is surging ahead in bringing out internationally acclaimed research publications. Sathyabama faculties have reached milestones in publishing high impact factor journals like Journal of Materials Research and Technology, Scientific Reports, Journal of Environmental Science and Pollution Research, Journal of Colloid and Interface Science, Saudi Journal of Biological Sciences, Mar. Drugs, Journal of Chemosphere, Journal of Materials Chemistry and Physics, Drug Discovery Today, Reviews in Medical Virology, Journal of Environmental Science and Pollution Research, Journal of Alloys and Compounds, Journal of Ambient Intelligence and Humanized Computing, Indian Journal of Cancer, Nanomedicine: Nanotechnology, Biology, and Medicine, Bioresource Technology , International Journal of Biological Macromolecules etc

High Impact Publications in the AY 2020-2021				
Impact Factor	< 1	1 – 3	3 - 5	>5
No. of Publications	21	92	79	97

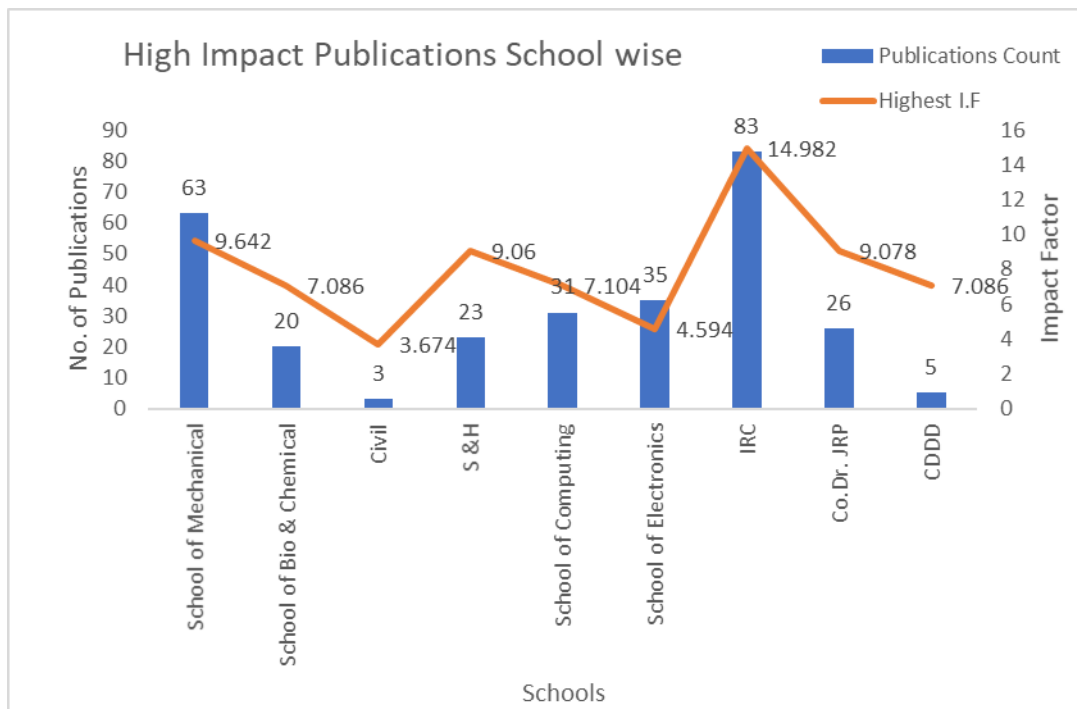


Progress in High Impact Publications compared to previous year 2019-20

High Impact Publications						
Impact Factor		< 1	1 to 3	3 to 5	> 5	Total
No. of Publications	AY 2019-20	60	78	48	21	207
	AY 2020-21	21	92	79	97	289



Department	School of Mechanical	School of Bio & Chemical	Civil	S &H	School of Computing	School of Electronics	IRC	Co.Dr. Jeppiaar Research Park	CDDD
Publications Count	63	20	3	23	31	35	83	26	5
Highest I.F	9.642	7.086	3.674	9.060	7.104	4.594	14.98	9.078	7.086



5.1 HIGH IMPACT PUBLICATIONS (2020-2021)

S.No	Name of the First Author & Designation	Department	Name of the Corresponding Author	Name of other Co Authors	Title of the Paper	Published date Vol/Issue	Name of the Journal	IF
1.	Sanjeevi Prasath. S	CNSNT	Brijitta. J	Jacob John, Peter Holmqvist, Ulf Olsson and Saravanan. C	Adsorption of Anionic Dyes Using a Poly(styrene-block-4-vinylpyridine) Block Copolymer Organogel	25 March 2021, 37, 13, 3996–4006	ACS, Langmuir	3.882
2.	Sanjeevi Prasath. S	CNSNT	Brijitta. J	Ajith Kumar. S, Tripura Sundari. S and Saravanan. C	Temperature Responsive Poly(N-isopropylacrylamide- <i>block</i> -styrene) Block Copolymer Coatings with Tunable Hydrophilicity	7 Nov 2020, Volume :21, 100800	Surfaces and Interfaces	4.837
3.	Dr. M. Rajasekar, Scientist-C	CNSNT	M. Rajasekar	-	Recent development in fluorescein derivatives	13 August 2020, 1224, 129085	Journal of Molecular Structure	3.196
4.	Dr. M. Rajasekar, Scientist-C	CNSNT	M. Rajasekar	-	Recent Trends in Rhodamine derivatives as fluorescent probes for biomaterial applications	7 March 2021, 1235, 130232	Journal of Molecular Structure	3.196
5.	S. Muruganandam (Other institute)	CNSNT	G. Murugadoss	2	Effect of co-doped (Ni ²⁺ :Co ²⁺) in CdS nanoparticles: Investigation on Structural and Magnetic Properties	05/05/2021	Applied Physics A	2.584
6.	G.Murugadoss & Scientist-E	CNSNT	G. Murugadoss	6	Crystal stabilization of α -FAPbI ₃ perovskite by rapid annealing method in industrial scale	08-04-2021	Journal of Materials Research and Technology	5.039
7.	G. Manibalan (Other institute)	CNSNT	G. Murugadoss	5	Novel chemical route for synthesis of CeO ₂ -ZnO nanocomposite towards high electrochemical supercapacitor application	16/03/2021	Journal of Materials Science: Materials in Electronics	2.478
8.	G. Manibalan (Other institute)	CNSNT	G. Murugadoss	-	Synthesis of heterogeneous NiO nanoparticles for high performance electrochemical supercapacitor application	05/02/2021	Journal of Materials Science: Materials in Electronics	2.478
9.	V. Sudha (Other institute)	CNSNT	G. Murugadoss	2	Structural and morphological tuning of Cu-based metaloxide	09/02/2021	Scientific Reports	4.379
10.	G. Murugadoss & Scientist-E	CNSNT	G. Murugadoss	4	Silver Decorated CeO ₂ Nanoparticles for Rapid Photocatalytic Degradation of Textile Rose Bengal Dye	13/01/2021	Scientific Reports	4.379
11.	N. Venkatesh(Other institute)	CNSNT	G. Murugadoss	5	Sunlight-driven enhanced photocatalytic activity of bandgap narrowing Sn-doped ZnO nanoparticles	04/01/2021	Environmental Science and Pollution Research	4.223

S.no	Name of the First Author & Designation	Department	Name of the Corresponding Author	Name of other Co Authors	Title of the Paper	Published date Vol/Issue	Name of the Journal	IF
12.	M. Praveen Kumar	CNSNT	G. Murugadoss	3	Enhanced electrocatalytic activity of CuO-SnO ₂ nanocomposite in alkaline medium	04/01/2021	Applied Physics A	2.584
13.	G. Manibalan(Other institute)	CNSNT	G. Murugadoss	6	Facile Synthesis of NiO@Ni(OH) ₂ - α -MoO ₃ Nanocomposite for Enhanced Solid-State Symmetric Supercapacitor Application	20-10-2020	Journal of Colloid and Interface Science	8.128
14.	G. Murugadoss & Scientist-E	CNSNT	G. Murugadoss	2	Synthesis of Cu ₂ O-Cu(OH) ₂ nanocomposite from CuSCN precursor by a facile chemical precipitation method	20-10-2020	Materials Letters	3.423
15.	N. Venkatesh (Other institute)	CNSNT	G. Murugadoss	4	Visible light-driven photocatalytic dye degradation under natural sunlight using Sn-doped CdS nanoparticles	30/07/2020	Environmental Science and Pollution Research	4.223
16.	S. Muruganandam (Other institute)	CNSNT	G. Murugadoss	1	Large-scale preparation of ZnS-ZnO-SnS nanocomposites: Investigation on structural and optical properties	03-07-2020	Optik	2.443
17.	Gobi Saravanan Kaliaraj	CNSNT	Gobi Saravanan Kaliaraj	SudhakarThukkaram, Karthik Alagarsamy, A.M. Kamalan Kirubaharan, Likhitha Kiliyelathu Paul, Linta Abraham, Vinita Vishwakarma, Suresh Sagadevan	Silver-calcia stabilized zirconia nanocomposite coated medical grade stainless steel as potential bioimplants	10 March 2021	Surfaces and Interfaces	4.837
18.	S.Kathiravan	CNSNT	Gobi Saravanan Kaliaraj	RaviRanjan Kumar, A.M.Kamalan Kirubaharan	A Novel Experimental Setup for in situ Oxidation Behavior Study of Nb/Hf/Ti (C-103) Alloy for High Temperature Environments	28-06-2021	Materials Letters	3.423
19.	Archana Rajendran, Student Claim: Gobi Saravanan	CNSNT	Suresh Sagadevan	J.Anita Lett, Gobi Saravanan Kaliaraj, IsFatimah Faruq Mohammad, Hamad A.Al-Lohedan, Solhe F.Alshahateet, JibanPodderh	Synthesis, growth, supramolecularity and antibacterial efficacy of 3,4-dimethoxybenzoic acid single crystals	13-12-2020	Chemical Physics Letters	2.328
20.	Suresh Sagadevan Claim: Gobi Saravanan	CNSNT	Suresh Sagadevan	J.Anita Lett, Selvaraj Vennila, P.Varun Prasath, Gobi Saravanan Kaliaraj, IsFatimah, Estelle Leonard, Faruq Mohammad, Hamad A.Al-Lohedan, Solhe F.Alshahateet, C.T.Leej	Photocatalytic activity and antibacterial efficacy of titanium dioxide nanoparticles mediated by Myristica fragrans seed extract	18-03-2021	Chemical Physics Letters	2.328

S.No	Name of the First Author & Designation	Department	Name of the Corresponding Author	Name of other Co Authors	Title of the Paper	Published date Vol/Issue	Name of the Journal	IF
21.	Ruchi P.Jain Student	CNSNT	Rajesh Rajaian Pushpabai	Benjamin Franklin Jayaseelan Carlton Ranjith Wilson Alphonse Ahmed Hossam Mahmoud Osama Mohammed Bandar MohsenAhmed Almunqedhi	Mass spectrometric identification and denovo sequencing of novel conotoxins from vermivorous cone snail (<i>Conus inscriptus</i>), and preliminary screening of its venom for biological activities in vitro and in vivo	Volume 28, Issue 3, 24-12-2020 Pages 1582-1595	Saudi Journal of Biological Sciences	4.219
22.	Rajesh. Rajaian Pushpabai, Scientist	CNSNT	Franklin, J.B.	Wilson Alphonse C.R.; Mani, R.; Arun Apte, D.	Diversity of Conopeptides and Conoenzymes from the Venom Duct of the Marine Cone Snail <i>Conus bayani</i> as Determined from Transcriptomic and Proteomic Analyses	April 03 2021, 19(4), 202	<i>Mar. Drugs</i>	5.118
23.	Yasrib Qurishi Assistant Professor	CNSNT	Rajesh. Rajaian Pushpabai,	Vidya Devanathadesikan Seshadri,Mohammed Mustafa Poyil, Jeyaseelan Benjamin Franklin,Deepak Arun Apte, Mohammed H. Karrar Alsharif	Anticancer activity in HeLa and MCF-7 cells via apoptotic cell death by a sterol molecule Cholesta-4,6-dien-3-ol (EK-7), from the marine ascidian <i>Eudistoma kaverium</i> .	Volume 33, Issue 4, 27- Mar-2021 101418	<i>Journal of King Saud University</i>	4.011
24.	K.Bhuvanewari, Research Scholar Claim: RP Rajesh	CNSNT	T. Pazhanivel	PalanisamyG.Bharathi, T.PazhanivelaIndra RajUpadhyaya, M.L Aruna Kumari, R.P.Rajesh, ManiGovindasamy, AymanGhfarf, Nora HamadAl-Shaalang,	Visible light driven reduced graphene oxide supported ZnMgAl LTH/ZnO/g-C3N4 nanohybrid photocatalyst with notable two-dimension formation for enhanced photocatalytic activity towards organic dye degradation.	Volume 197, 26-03-2021	<i>Environmental Research</i>	6.498
25.	Weng Kiat Tan Claim: RP Rajesh	CNSNT	Sivakumar Manickam	Siew Cheong Cheah, Shridharan Parthasarathy, Rajesh R.P, Cheng Heng Pang,	Fish pond water treatment using ultrasonic cavitation and advanced oxidation processes	Volume 274, 25-01-2021	<i>Chemosphere</i>	7.086
26.	Gobi Saravanan Kaliaraj	CNSNT	Kamalan Kirubaharan	Muthaiah Bavanilatha, Alagarsamy Karthik, Vinita Vishwakarma	Role of bovine serum albumin in the degradation of zirconia and its allotropes coated 316L SS for potential bioimplants	25 September 2020 258/123859	Materials Chemistry and Physics	4.094
27.	Dr. Ranjita Misra, Scientist-C	CNSNT	Dr. Ranjita Misra	-	Smart nanotheranostic hydrogels for on-demand cancer management	2020 Nov 17 ;26(2)	Drug Discovery Today	7.851
28.	Dr. Ranjita Misra	CNSNT	Dr. Ranjita Misra	PronamaBiswas, AnimaNanda	EGFR targeted Mn-doped ZnO fluorescent nanocrystals for cancer theranostic applicatn	18-02-2021	Materials Today Communications	3.383

S.No	Name of the First Author & Designation	Department	Name of the Corresponding Author	Name of other Co Authors	Title of the Paper	Published date Vol/Issue	Name of the Journal	IF
29.	Dr. Ranjita Misra	CNSNT	Dr. Ranjita Misra	Bamadab Patra , Sudha Varadaraj , Rama S Verma	Establishing the promising role of novel combination of triple therapeutics delivery using polymeric nanoparticles for Triple negative breast cancer therapy	31-07-2020	BioImpacts	3.831
30.	Dr. Ranjita Misra	CNSNT	Dr. Ranjita Misra	Sarbari Acharya, Nehru Sushmitha	Nanobiosensor-based diagnostic tools in viral infections: Special emphasis on COVID-19	2021 Jun 23:e2267	Reviews in Medical Virology	6.989
31.	Vinita Vishwakarma, Professor	CNSNT	Vinita Vishwakarma	-	Investigation on surface sulfate attack of nanoparticle-modified fly ash concrete	18 July, 2020 27, 41372–41380, (2020)	Environmental Science and Pollution Research	4.223
32.	C.O.Ogunkunle	CNSNT	C.O.Ogunkunle	Vinita Vishwakarma (One of the author)-Foreign collaboration	Co-application of indigenous arbuscular mycorrhizal fungi and nano-TiO ₂ reduced Cd uptake and oxidative stress in pre-flowering cowpea plants	19-09-2020 20:101163, (2020)	Environmental Technology & Innovation	5.263
33.	Roselin Sobha Joseph Boopaphi	CNSNT	Vinita Vishwakarma	-	Study on Polymeric coatings on fly Ash concrete under seawater	03 November 2020, 28, 9338–9345, (2021)	Environmental Science and Pollution Research	4.223
34.	Clement Oluseye Ogunkunle	CNSNT	Clement Oluseye Ogunkunle	Vinita Vishwakarma (One of the author)- Foreign collaboration	Short-term ageing of facile pod-derived biochar reduced soil Cd mobility and ameliorated Cd toxicity to soil enzymes and leaf bioactive compounds of tomato	08 December 2020, 00:1-11, (2021)	Environmental Toxicology and Chemistry	3.742
35.	Dawn S S	CNSNT	Vinita Vishwakarma	-	Recovery and recycle of wastewater contaminated with heavy metals using adsorbents incorporated from waste resources and nanomaterials-A Review	18 January 2021, (2021), 273, 129677	Chemosphere	7.086
36.	Karthik Kumar C (Research Scholar)	CNSNT and CEER	Shyju T.S.	Vengatesh P.	Ba-Acceptor Doping in ZnSnN ₂ by Reactive RF Magnetron Sputtering: (002) faceted Ba-ZnSnN ₂ films	06-10-2020 Vol. 855, (2021), 157380	Journal of Alloys and Compounds	5.316
37.	Karthik Kumar C (Research Scholar)	CNSNT and CEER	Shyju T.S.	Vengatesh P.	Impact of Cu Addition on the Optoelectronic Properties of Zn ₃ N ₂ Thin Films: n to p-type Transitions	11-01-2021 Vol. 265, (2021), 115039,	Materials Science & Engineering B	4.051
38.	Shyju T. S.	CNSNT and CEER	Shyju T. S.	P. Vengatesh, C. Karthik Kumar, M. Paulraj and P. Kuppusami,	Highly crystalline methylammonium lead iodide films: Phase transition from tetragonal to cubic structure:	08 February 2021 Vol 39 (2021)	Journal of Vacuum Science and Technology A	2.427

S.No	Name of the First Author & Designation	Department	Name of the Corresponding Author	Name of other Co Authors	Title of the Paper	Published date Vol/Issue	Name of the Journal	IF
39.	T. Karupiah,	CWM	A. Pugazhendhi	U. Uthirakrishnan, Shri Vigneshwar Sivakumar, S. Authilingam, J. Arun, R. Sivaramakrishnan,	Processing of electroplating industry wastewater through dual chambered microbial fuel cells (MFC) for simultaneous treatment of wastewater and green fuel production	30-06-2021	International Journal of Hydrogen Energy	5.816
40.	A. Swetha,	CWM	J.Arun	S. ShriVigneshwar, K. P. Gopinath, R. Sivaramakrishnan, R. Shanmuganathan	Review on hydrothermal liquefaction aqueous phase as a valuable resource for biofuels, bio-hydrogen and valuable bio-chemicals recovery	21-06-2021	Chemosphere	7.086
41.	J. Arun	CWM	Pugazhendhi A	KP Gopinath, PS SundarRajan, S Shyam, N Mayuri, R. Sivaramakrishnan	Upgradation of Nostoc punctiforme under subcritical conditions into liquid hydrocarbons (bio-oil) via hydro-deoxygenation: Optimization and engine tests	17-02-2021	Journal of Environmental Chemical Engineering	5.909
42.	PV Gopirajan	CWM	KP Gopinath	G Sivaranjani, J Arun	Optimization of hydrothermal gasification process through machine learning approach: Experimental conditions, product yield and pollution	29-04-2021	Journal of Cleaner Production	9.297
43.	J Mahima,	CWM	Pugazhendhi A	RK Sundaresh, KP Gopinath, PS SundarRajan, J Arun, SH Kim	Effect of algae (Scenedesmus obliquus) biomass pre-treatment on bio-oil production in hydrothermal liquefaction (HTL): Biochar and aqueous phase utilization studies	08-03-2021	Science of The Total Environment	7.963
44.	P SundarRajan,	CWM	KP Gopinath,	Arun, K GracePavithra, AA Joseph, S. Manasa	Insights into valuing the aqueous phase derived from hydrothermal liquefaction	30-03-2021	Renewable and Sustainable Energy Reviews	14.982
45.	RS Jayaraman,	CWM	A. Pugazhendhi	KP Gopinath, J Arun, R Malolan, S Adithya, PS Ajay, R. Sivaramakrishnan,	Co-hydrothermal gasification of microbial sludge and algae Kappaphycus alvarezii for bio-hydrogen production: Study on aqueous phase reforming	15-03-2021	International Journal of Hydrogen Energy	5.816
46.	A Kartik,	CWM	A. Pugazhendhi	D Akhil, D Lakshmi, KP Gopinath, J Arun, R Sivaramakrishnan,	A critical review on production of biopolymers from algae biomass and their applications	17-02-2021	Bioresource Technology	9.642
47.	S Adithya,	CWM	M. Govarthan	RS Jayaraman, A Krishnan, R Malolan, KP Gopinath, J Arun, W. Kim,	A critical review on the formation, fate and degradation of the persistent organic pollutant hexachlorocyclohexane in water systems and waste streams".	08-02-2021	Chemosphere,	7.086
48.	R Neha,	CWM	J. Arun	S. Adithya, RS Jayaraman, KP Gopinath, M Pandimadevi, I. Praburaman,	Nano-adsorbents an effective candidate for removal of toxic pharmaceutical compounds from aqueous environment: A critical review on emerging trends,	04-02-2021	Chemosphere,	7.086

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49.	J Rajagopal,	CWM	KP Gopinath,	A Krishnan, NV Madhav, J Arun	Photocatalytic reforming of aqueous phase obtained from liquefaction of household mixed waste biomass for renewable bio-hydrogen production”,	10-12-2020	Bioresource Technology	9.642
50.	J Arun,	CWM	J Arun,	KP Gopinath, R Sivaramakrishnan, NV Madhav, K Abhishek, VG. Karthik Ramanan, A. Pugazhendhi	Bioenergy perspectives of cattails biomass cultivated from municipal wastewater via hydrothermal liquefaction and hydro-deoxygenation”.	24-08-2020	Fuel,	6.609
51.	D Akhil,	CWM	KP Gopinath,	D Lakshmi, A Kartik, DVN Vo, J Arun,	Production, characterization, activation and environmental applications of engineered biochar: a review”.	16-01-2021	Environmental Chemistry Letters,	9.027
52.	PV Gopirajan	CWM	KP Gopinath,	G Sivaranjani, J Arun	Optimization of hydrothermal liquefaction process through machine learning approach: process conditions and oil yield”.	03-01-2021.	Biomass Conversion and Biorefinery,	4.987
53.	A Suresh,	CWM	A. Bhatnagar	DS Ramgopal, KP Gopinath, J Arun, P SundarRajan,	Recent Advancements in the Synthesis of Novel Thermostable Biocatalysts and Their Applications in Commercially Important Chemoenzymatic Conversion Processes”.	17-12-2020	Bioresource Technology,	9.642
54.	P Srivatsav,	CWM	A. Bhatnagar,	BS Bhargav, V Shanmugasundaram, J Arun, KP Gopinath,	Biochar as an Eco-Friendly and Economical Adsorbent for the Removal of Colorants (Dyes) from Aqueous Environment: A Review”.	18-12-2020	Water	3.103
55.	J. Arun,	CWM	J. Arun	K. P. Gopinath, S. Shri Vigneshwar and A. Swetha.	Sustainable and eco-friendly approach for phosphorus recovery from wastewater by hydrothermally carbonized microalgae: Study on spent bio-char as fertilizer”.	11-08-2020	Journal of Water Processing Engineering,	5.485
56.	S Naveen,	CWM	KP Gopinath,	R Malolan, RS Jayaraman, K Aakriti, J Arun	A Solar Reactor for Bio-diesel Production from Pongamia Oil: Studies on transesterification Process Parameters and Energy Efficiency”.	21-11-2020	Chinese Journal of Chemical Engineering	3.171
57.	S Naveen,	CWM	KP Gopinath,	R Malolan, SJ Ramesh, K Aakriti, J Arun	Novel Solar Parabolic Trough Collector cum Reactor for the Production of Biodiesel from Waste Cooking Oil using Calcium Oxide catalyst derived from seashells waste”.	15-09-2020	Chemical Engineering and Processing-Process Intensification,	4.237
58.	R Malolan,	CWM	K P Gopinath	Dai-Viet N Vo, R Sai Jayaraman, S Adithya, P Srinivaasan Ajay, J Arun	Green ionic liquids and deep eutectic solvents for desulphurization, denitrification, biomass, biodiesel, bioethanol and hydrogen fuels: a review”.	22-10-2020	Environmental Chemistry Letters,	9.027

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59.	J Arun,	CWM	J Arun,	KP Gopinath, R Sivaramakrishnan, PS SundarRajan, R Malolan, A. Pugalendhi.	Technical insights into the production of green fuel from CO ₂ sequestered algal biomass: A conceptual review on green energy”.	02-10-2020	Science of the Total Environment,	7.963
60.	K. P. Gopinath	CWM	K. P. Gopinath	DVN Vo, D. G. Prakash, A. Joseph, S. Viswanathan, J Arun.	Environmental applications of carbon-based materials: a review”.	04-09-2020	Environmental Chemistry Letters,	9.027
61.	A Krishnan	CWM	KP Gopinath,	DVN Vo, R Malolan, VM Nagarajan, J Arun	Ionic liquids, deep eutectic solvents and liquid polymers as green solvents in carbon capture technologies: a review”.	23-07-2020.	Environmental Chemistry Letters,	9.027
62.	J. Arun	CWM	Pugazhendhi A	K. P. Gopinath, R. Sivaramakrishnan, S. Shyam, N. Mayuri, S. Manasa	Hydrothermal liquefaction of <i>Prosopis juliflora</i> biomass for the production of ferulic acid and bio-oil	14-09-2020	Bioresource technology	9.642
63.	J Balakrishnan Claim: Preethi L K	CNSNT.	KSR Koteswara Rao, Professor, Dept. of physics, Indian Institute of Science, Bengaluru.	LK Preethi, D Sreeshma, A Jagtap, KK Madapu, S Dhara	Temperature-and size-dependent photoluminescence in colloidal CdTe and Cd x Zn1– x Te quantum dots	25 Jan, 2021 Volume: 54 Issue: 14 Page: 145103	Journal of Physics D: Applied Physics	3.207
64.	Dr. G. Ramanjaneya Reddy, Scientist-C	CNSNT	Dr. G. Ramanjaneya Reddy,	Dr. Balasubramanian	The Heterogenized Hexazatricyclic Complexes as Solid Acid Catalyst for the Degradation of Rhodamine-b	27, August, 2020	Chemistry Select	2.109
65.	Dr. G. Ramanjaneya Reddy, Scientist-C	CNSNT	Dr. G. Ramanjaneya Reddy,	Dr. Balasubramanian	Removal of organic pollutants in water by the MCM-41 anchored with nickel(II) and copper(II) complexes	15-03-2021 101492	Environmental Technology Innovation	5.263
66.	K. Narthana (JRF)	CNSNT	Dr. J. Theerthagiri	Dr. P. Kuppusami, Dr. G. Durai, S. Sujatha, Seung Jun Lee, Myong Yong Choi	One-step synthesis of hierarchical structured nickel copper sulfide nanorods with improved electrochemical supercapacitor properties	09-02-2021, Vol. 45, 9983–9998.	International Journal of Energy Research	5.164
67.	T. Dharini (JRF)	CNSNT	Dr. P. Kuppusami	N. Kumar, DD Kumar, Ajith Kumar, A.M. Kamalan Kirubaharan	Tribological properties of YSZ and YSZ/Ni-YSZ nanocomposite coatings prepared by electron beam physical vapour deposition	07 June 2021 (In press)	Ceramics International	4.527
68.	S. Ajith Kumar, Scientific Assistant	CNSNT	Kuppusami. P and Fu Yen Pei	Vigneshwaran. B	“Co-Doped Ceria Ce _{0.8} M _{0.1} Gd _{0.1} O _{2-δ} (M= Sm ³⁺ , Sr ²⁺ , Ca ²⁺) and Co-Doped Ceria-Na ₂ CO ₃ Nanocomposite Electrolytes for Solid Oxide Fuel Cells	03 Oct 2019. Vol. 2, Issue. 10, 6300–6311	ACS Applied Nanomaterials	

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69.	Krishnamanikumar Premachandran (PHD scholar)	CCCS	Thanga Suja Srinivasan	Krishnamanikumar Premachandran 1, Thanga Suja Srinivasan 2, Carlton Ranjith Wilson Alphonse 3	In silico approach on sequential and structural variability in oryzacystatin and its interaction with cysteine protease enzymes of insect	13-03-2021	Phytochemistry.	4.072
70.	AM Iniyan	CNSNT	Dr. R. Rajesh Kannan (Collaborating Author)	Joachim Wink, Wiebke Landwehr, Eedara Veera Venkata Ramprasad, Chintalapati Sasikala, Chintalapati Venkata	<i>Streptomyces marianii</i> sp. nov., a novel marine actinomycete from southern coast of India	13 Aug 2020	The Journal of Antibiotics	2.649
71.	Swathi Kesh	CNSNT	Dr. R. Rajesh Kannan	A Balakrishnan	Naringenin alleviates 6-hydroxydopamine induced Parkinsonism in SHSY5Y cells and zebrafish model	216-09-2020	Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology	3.228
72.	Swathi Kesh	CNSNT	Dr. R. Rajesh Kannan	K Sivaji, A Balakrishnan	Hesperidin downregulates kinases Irfk2 and gsk3 β in a 6-OHDA induced Parkinson's disease model	16-10-2020	Neuroscience Letters	3.046
73.	TR Jabila Mary	CNSNT	Dr. R. Rajesh Kannan	AM Iniyan, D Ramachandran	Cell wall distraction and biofilm inhibition of marine <i>Streptomyces</i> derived angucycline in methicillin resistant <i>Staphylococcus aureus</i>	28-12-2020	Microbial Pathogenesis	3.738
74.	TR Jabila Mary	CNSNT	Dr. R. Rajesh Kannan	ppadurai Muthamil Iniyan, Wilson Alphonse Carlton Ranjith, Soundarapandian Nandhagopal, Vinita Vishwakarma, Samuel Gnana Prakash Vincent	β -lactamase inhibitory potential of kalafungin from marine <i>Streptomyces</i> in <i>Staphylococcus aureus</i> infected zebrafish	03-12-2020	Microbiological Research	5.415
75.	Shenbagamoorthy Sundarraj	CNSNT	Dr. R. Rajesh Kannan	Mohan V. Sujitha, Carlton Ranjith WA, Retnamony Kalaiarasan.	Bisphenol-a alters hematopoiesis through EGFR/ERK signaling to induce myeloblastic condition in zebrafish model	06-05-2021	Science of the Total Environment	7.963
76.	Jhansi Nathan	CNSNT	Dr. R. Rajesh Kannan	B Kurmi, N Soundharapandian	In vivo molecular validation of VEGF inhibitor extracted from marine Actinomycetes in zebrafish embryos	June 2020 Vol 49-06 Page 970-974	NISCAIR-CSIR	0.496
77.	S. Prakash, Scientist	CCCS	S. Prakash,	M. Ampuli, Amit Kumar.	Population structure and reproductive performance of the sea anemone associated shrimp <i>Ancylorhynchus brevicarpalis</i> (Caridea: Palaemonidae).	08 February 2021. 101(1): 109-116	<i>Journal of Marine Biological Association of the United Kingdom</i>	1.394
78.	S. Prakash, Scientist	CCCS	S. Prakash,	T. Marudhupandi, J. Balamurugan, T. T. Ajith Kumar.	Influence of lipid-enriched diets on the reproductive performance of ornamental 'hinge-beak' shrimp <i>Rhynchocinetes durbanensis</i> (Caridea: Rhynchocinetidae).	09-11-2020	<i>Aquaculture Research</i>	2.082

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79.	Jojoy John	CCCS	Amit Kumar	John, J., Dineshram, R., Hemalatha, R., Magesh, P., Dharani, G., Kumar, A.	Bio-decolorization of synthetic dyes by a halophilic bacterium <i>Salinivibrio</i> sp	21 December 2020. 11:594011	Frontiers in Microbiology	5.640
80.	Dharunya G (CLRI) (collaborative work)	CNSNT	Manikantan Syamala Kiran	Nandhagopal Soundhara pandiyan, Seetharaman Shanmuganathan, Jayavel Ramasamy	Modular mucopolysaccharide gelatin naturapolyceutics hydrocolloid biomatrix with cobalt nano-additives for high density vascular network assembly	Volume 181, 30 18-04-2021 Pages 847-857	International Journal of Biological Macromolecules	6.953
81.	P.Priyadasini Research Scholar	CWM	Dawn S S	-	Compositional and Structural Evaluation of <i>Kappaphycus alvarezii</i> Rejects and Solid Food Waste Blends for Bio ethanol Production	24 Aug 2020	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	3.447
82.	M.Arul Jayan	CWM	Dawn S S	G.G.Vinoth Kumar	Facile preparation of highly dispersed copper promoted cobalt catalyst supported on alumina nanospheres	19 Dec 2020	Materials Letters	3.423
83.	Kumaran Subramanian Designation: Scientist C	CDDD	Kumaran	-	Chitin derivatives of NAG and chitosan nanoparticles from marine disposal yards and their use for economically feasible fish feed development	Vol: 281 : 130746 14May 2021	Chemosphere	7.086
84.	Kumaran Subramanian Scientist C	CDDD	Saravanan	-	Bio remediation of Synthetic Textile Dyes Using Live Yeast <i>Pichia pastoris</i>	Volume 22, 101442 20 February 2021	Environmental Technology & Innovationn	5.263
85.	Kumaran Subramanian Scientist C	CDDD	Kumran	-	Nanoremediation of dimethomorph in water samples using magnesium aluminate nanoparticles	Volume 20, , 101176 25 September 2020.	Environmental Technology & Innovationn	5.263
86.	Kumaran Subramanian Designation: Scientist C	CDDD	Kumaran	-	Bioconversion of chitin and concomitant production of chitinase and N-acetylglucosamine by novel <i>Achromobacter xylosoxidans</i> isolated from shrimp waste disposal area	Volume: 10:11898 Date: 17 July 2020	Nature Scientific Reports	4.379
87.	Mr. Karthikeyan Subbiahanadar Chelladurai, Young Scientist	CNSNT	Dr. S. Jackson Durairaj and Dr. S. Johnson Retnaraj Samuel	Ananthaselvam Azhagesan, Vennila Devi Paulraj, Muralidharan Johnson Benedict, Jemima Kamalapriya John Samuel	Exploring the effect of UV-C radiation on earthworm and understanding its genomic integrity in the context of H2AX expression.	03-12-2020 10, 21005	Scientific Reports	4.379

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88.	Seshadri Parthasarathy Research Scholar	COR	V. Ganesh Kumar	R. V. Subbarao	A remote conductometric titration method for simultaneous determination of uranium and nitric acid concentrations at elevated temperatures	25-01-2021, Vol.327, pp.1087–1093	Journal of Radioanalytical and Nuclear Chemistry	1.371
89.	Dr. V. Karthick Scientist - B	COR	V. Karthick	Dinesh Kumar, Katsuhiko Ariga, C. M. Vineeth Kumar, V. Ganesh Kumar, K. Vasanth, T. Stalin Dhas, M. Ravi & J. Baalamurugan	Incorporation of 5-Nitroisatin for Tailored Hydroxyapatite Nanorods and its Effect on Cervical Cancer Cells: A Nanoarchitectonics proach	01 st Feb 2021 31 (2021) 1946-1953	Journal of Inorganic and Organometallic Polymers and Materials	3.543
90.	Marykutty Abraham Scientist E	CRSG	Marykutty Abraham	S. Mohan	Effectiveness of Check Dam and Percolation Pond with Percolation Wells for Artificial Groundwater Recharge using Groundwater Model	Nov. 2019 19 (7)	Water Science and Technology-Water Supply	1.033
91.	D.Sivaraman Scientist C	CLATR	D.Sivaraman	P. S. Pradeep, M. Arun, R. Kannan, , P. Muralidharan	Neurocognitive Investigation of Morinda tinctoria against Amyloid Beta Induced Oxidative Insult and Cognitive Impairment in Albino Mice: A Phytotherapeutic Approach	28th August 2020	Pharmacognosy Magazine	1.085
92.	D.Sivaraman Scientist C	CLATR	D.Sivaraman	K.V.Leela, V.Venugopal	A Risk - Benefit Analysis on clinical significance of convalescent plasma therapy in the management of COVID-19	17th August 2020	The Postgraduate Medical Journal BMJ	2.401
93.	P.Govindaraj IIT Madras	CLATR	Mukesh Doble IIT Madras	Boopalan Ramasamy, Maya Nandkumar A, Sivaraman Dhanasekaran, Selvaraj Ramasamy, Mukesh Doble	Bilayered nanostructure coating on AZ31 magnesium alloy implants for the healing of critical-sized rabbit femoral segmental bone defects	17-06-2020	Nanomedicine: Nanotechnology, Biology, and Medicine	6.458
94.	Pratibha Pramod Chavan Research Scholar	Director (Research)	Dr.B.Sheela Rani	M.Murugan, Pramod Chavan	A novel image compression model by adaptive vector quantization: modified rider optimization algorithm	9 th September, 2020 45:232	Sadhana, Indian Academy of Sciences IF :1.188	1.188
95.	S. Amrin Nisa JRF	COR	K. Govindaraju	D. Vinu, P. Krupakar, D. Sharma, R. Vivek	Jellyfish venom proteins and their pharmacological potentials: A review	11-02-2021	International Journal of Biological Macromolecules IF – 6.953	6.953
96.	Shiv Vendra Singh Research Scholar	COR	Sumit Chaturvedi, G.B Pant University of Agriculture & Technology, Pantnagar	V.C.Dhyani, K. Govindaraju	Pyrolysis temperature influences the characteristics of rice straw and husk biochar and sorption/ desorption behaviour of their biourea composite	13-June-2020	Bioresource Technology IF – 9.642	9.642

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97.	M. Kannan Assistant Professor TNAU	COR	M. Kannan, TNAU, Coimbatore	K. Elango, M. Kalyanasundaram, K. Govindaraju	Ultra-structural and physico-chemical characterization of eggs and egg hairs (setae) of the new invasive pest, fall armyworm, <i>Spodoptera frugiperda</i> (J. E. Smith) in India: A first report.	14-01- 2021/ 84 (7) 1422- 1430	Microscopy Research and Technique IF – 2.769	2.769
98.	K. Raja, Assistant Professor TNAU	COR	K.Raja, TNAU, Coimbatore	K. S. Subramanian & K. Govindaraju	Electrospun polyvinyl alcohol (PVA) nanofibers as carriers for hormones (IAA and GA3) delivery in seed invigoration for enhancing germination and seedling vigor of agricultural crops (groundnut and black gram)	24 October 2020	Polymer Bulletin IF – 2.870	2.870
99.	Sumit Chaturvedi Associate Professor G.B Pant University	COR	Sumit Chaturvedi, G.B Pant University of Agriculture & Technology, Pantnagar	SV Singh, VC Dhyani, K Govindaraju, R Vinu, S Mandal	Characterization, bioenergy value, and thermal stability of biochars derived from diverse agriculture and forestry lignocellulosic wastes	02 January 2021	Biomass Conversion and Biorefinery	4.987
100.	Jyotsna, SRF	COR	Parameswaran.V	Stalin Dhas T, Ravi M, Vasantharaja R	Antiviral activity of sulfated polysaccharides from <i>Sargassum ilicifolium</i> against fish Betanodavirus infection	11 March 2021/ 29, 1049-1067	Aquaculture International	2.235
101.	J.Baalamurugan Scientific Asst	COR	V.Ganesh Kumar	S.Chandrasekaran, S.Balasundar, and B.Venkatraman, R.Padmapriya, V.K.Bupesh Raja	Recycling of steel slag aggregates for the development of high density concrete: Alternative & environment-friendly radiation shielding composite	10-04-2021	Composites Part B: Engineering	9.078
102.	J.Baalamurugan Scientific Asst	COR	V.Ganesh Kumar	B.S.Naveen Prasad, R.Padmapriya, V.Karthick and K.Govindaraju	Recycling of induction furnace steel slag in concrete for marine environmental applications towards ocean acidification studies	24 May 2021	International Journal of Environmental Science and Technology	2.860
103.	B Subasini SRF	COR	Dr. Inbakandan D	R Thirugnanasambandam, C Kumar, Pavithra Sampath, Ramalingam Bethunaickan, Vasantharaja Raguraman, Ganesh Kumar V	A comparative study on chitosan nanoparticle synthesis methodologies for application in aquaculture through toxicity studies	18 Mar 2021 15 (4)	IET Nanobiotechnology	1.847
104.	S.U.Mohammed Riyaz NPDF	COR	Dr. Inbakandan D	ManikandaneP.Bhavadhara nicJ.ElsonN.Srinivasa Prabhu T.Stalin Dhasa S.Nalini M.Bavani Latha J.Simal-Gandara	Microbiome in the ice-ice disease of the farmed red algae <i>Kappaphycus alvarezii</i> and degradation of extracted food carrageenan	26May 2021	Food Bioscience IF 4.32	4.240

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105.	Ms. K. M. Smita, Research Scholar	COR	Dr. L. Stanley Abraham	V. Ganesh Kumar, Raguraman Vasantharaja R. Thirugnanasambandam, Ajit Antony, K. Govindaraju, T. Senthil Velan	Biosynthesis of reduced graphene oxide using <i>Turbinaria ornata</i> and its cytotoxic effect on MCF-7 cells	18 May 2021 15 455-464	IET Nanobiotechnology IF - 1.859	1.847
106.	R. Vasantharaja, Skilled Staff	COR	K. Govindaraju	Namitha Ravindran, Koushalya Selvaraju	Seaweed polysaccharides as potential therapeutic agents against white spot syndrome virus (WSSV): a mini review	13 August 2020/ 28:2333-2343	Aquaculture International IF - 2.235	2.235
107.	D. Vinu, SRF	COR	K. Govindaraju	R. Vasantharaja, S. Amreen Nisa, M. Kannan and K. Vijai Anand	Biogenic zinc oxide, copper oxide and selenium nanoparticles: preparation, characterization and their anti-bacterial activity against <i>Vibrio parahaemolyticus</i>	12 November 2020, 11, 271–286 (2021)	Journal of Nanostructure in Chemistry IF - 6.391	6.391
108.	K. Vijai Anand Associate Professor	COR	K. Govindaraju	M. Reshma, M. Kannan, S. Muthamil Selvan, Sumit Chaturvedi, Ahmed Esmail Shalan	Preparation and characterization of calcium oxide nanoparticles from marine molluscan shell waste as nutrient source for plant growth	07 January 2021	Journal of Nanostructure in Chemistry IF - 6.391	6.391
109.	R. Namitha Project Associate	COR	K. Govindaraju	R. Vasantharaja, M. Radhakrishnan, K. Govindaraju	Actinobacteria and their bioactive molecules for anti-WSSV activity: A mini review	17-10-2020	Aquaculture Research IF - 2.082	2.082
110.	B Subasini SRF	COR	Dr. Inbakandan D	R Thirugnanasambandan, Chandrasekaran K, Kasilingam R, Gopal D	Curcumin loaded chitosan nanoparticles fortify shrimp feed pellets with enhanced antioxidant activity	14 Nov 2020 120 111737	Materials Science & engineeringC, Materials for Biological Application	7.328
111.	Prema Dilip Itrotwar Research Scholar	COR	K. Govindaraju	S. Tamilselvan, M. Kannan, R. Vasantharaja, Sumit Chaturvedi, Doron Shkolnik	Influence of nanoscale micro-nutrient α -Fe ₂ O ₃ on seed germination, seedling growth, translocation, physiological effects and yield of rice (<i>Oryza sativa</i>) and maize (<i>Zea mays</i>).	13 May 2021, 162:564-580	Plant Physiology and Biochemistry IF - 4.270	4.270
112.	Riya Ann Mathew Research Scholar, University of Houston	CRSG	Riya Ann Mathew	Marykutty Abraham	Bioremediation of Diesel Oil in Marine Environment	11-9-2020 75, (2020)	Oil & Gas Science and Technology–Revue d'IFP Energies nouvelles	1.708
113.	Raji P. K Research Scholar, SIST	CRSG	Marykutty Abraham	Mohana P, Vijayalakshmi P and Selvam S	Modeling and simulation of runoff from an irrigation tank watershed to evaluate the utilizable water	6-1-2021 14 (16)	Arabian Journal of Geosciences	1.827

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114.	Dr.A. Anderson, Associate Professor	AERO	T. R. Praveenkumar	Amal M. Al-Mohaimeed, Mohamed Soliman Elshikh, M. Sekar	Exergy and Energy Analysis of α -Fe ₂ O ₃ -Doped Al ₂ O ₃ Nanocatalyst-Based Biodiesel Blends—Performance and Emission Characteristics	April 9, 2021. Vol. 143	Journal of Energy Resources Technology	2.903
115.	Dr.A. Anderson, Associate Professor	AERO	T R PraveenKumar	Rameshkumar Chandralingam	Impact of COVID-19 pandemic on plastic surge and environmental effects	29 March 2021	Energy Sources, Part A: Recovery, Utilization, And Environmental Effects	3.447
116.	G. Antony Casmir Jayaseelan Research Scholar	AERO	Dr.A. Anderson	Sekar Manigandan. Ashraf Elfasakhany, Veeman Dhinakaran	Effect of engine parameters, combustion and emission characteristics of diesel engine with dual fuel operation	10 June 2021	Fuel	6.609
117.	Dr.A. Anderson Associate Professor	AERO	Praveenkumar T.R.	Karthikeyan A, Ramesh Kumar C, Ramachandran S.	Lowest emission sustainable aviation biofuels as the potential replacement for the Jet-A fuels	23 October 2020	Aircraft Engineering and Aerospace Techn	0.975
118.	A.Senthilkumar Research Scholar	AERO	Dr.A. Anderson	Manigandan Sekar	Performance analysis of R600a vapour compression refrigeration system using CuO/Al ₂ O ₃ hybrid nanolubricants	25 June 2021 Vol.:(0123456789)1 3	Applied Nanoscience	3.674
119.	Dr.P.Booma Devi Associate Professor	AERO	T. R. Praveenkumar	Venkatesh S Rakesh vimal	Influence of high oxygenated biofuels on micro-gas turbine engine for reduced emission	11 Nov 2020 Vol.93 Issue 3	Aircraft Engineering and Aerospace Technology	0.975
120.	Dr.P.Booma Devi Associate Professor	AERO	Siriporn Tola	V Paulson Stanely Samlal Madhanraj Manigandan MishalAleshil AshrafElafsakhany	Impact of microalgae biofuel on microgas turbine aviation engine: A combustion and emission study	10 June 2021	Fuel	6.609
121.	Dr. Manigandan	AERO	Kathirvel Brindhadevi	P.Gunasekar T.R.Praveenkumar S.M.Sabir Thangavel Mathimani ArivalaganPugazhendhi	Performance, noise and emission characteristics of DI engine using canola and Moringa oleifera biodiesel blends using soluble multiwalled carbon nanotubes	09-12-2020	Fuel	6.609
122.	Dr. Manigandan Sekar	AERO	Arivalagan Pugazhendhi	PraveenkumarTR Amal M. Al-Mohaimeed KathirvelBrindhadevi	Characterization of polyurethane coating on high performance concrete reinforced with chemically treated Ananas erectifolius fiber	16-09-2020	Progress in Organic Coatings	5.161
123.	Dr. Manigandan Sekar	AERO	Arivalagan Pugazhendhi	ThangavelMathimani AvinashAlagumalai Nguyen Thuy LanChi Pham AnhDuc Shashi KantBhatia KathirvelBrindhadevi	A review on the pyrolysis of algal biomass for biochar and bio-oil—Bottlenecks and scope	30-09-2020	Fuel	6.609

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124.	Dr. Manigandan Sekar	AERO	P Thaloor Ramesh, E Palanivelu	Manigandan	Combined Analysis of Heavy Crude Oil Viscosity and Stress Acting on the Buried Oil Pipelines	02-2021	Journal of Pipeline Systems Engineering and Practice	1.952
125.	Dr. Manigandan Sekar	AERO	Ming-Tsang Wuade Vinay B.Raghavendra Arivalagan Pugazhendhi Kathirvel Brindhadevi	Vinoth Kumar Ponnusamy	A systematic review on recent trends in transmission, diagnosis, prevention and imaging features of COVID-19	20-08-2020	Process Biochemistry	3.753
126.	Dr. Manigandan Sekar	AERO	P.Gunasekar T.R.Praveen Kumar Tahan Awad Alahmadi N.Subramanian Arivalagan Pugazhendhi	Kathirvel Brindhadevi	Influence of dynamic position, fluid intake, hydration, and energy expenditure on sustainable mobility transport	14-12-2020	Applied Acoustics	2.639
127.	Dr. Rajasree Shanmuganathan	AERO	Manigandan Sekar	T. R. Praveenkumar, Arivalagan Pugazhendhi, Kathirvel Brindhadevi Sekar	Experimental investigation and numerical analysis of energy efficiency building using phase changing material coupled with reflective coating	19-Aug 2020	International Journal of Energy Research	5.164
128.	Dr. Kathirvel Brindhadevi	AERO	Manigandan Sekar	Kathirvel Brindhadevi, Rajasree Shanmuganathan, Arivalagan Pugazhendhi, P Gunasekar	Biohydrogen production using horizontal and vertical continuous stirred tank reactor-a numerical optimization	12-Aug 2020 (46,20)	International Journal of Hydrogen Energy	5.816
129.	Dr. Manigandan Sekar	AERO	Manigandan Sekar	T R Praveenkumar, Kathirvel Brindhadevi	A review on role of nitrous oxide nanoparticles, potential vaccine targets, drug, health care and artificial intelligence to combat COVID-19	16-June 21	Applied Nanoscience	3.674
130.	Dr. Devaraj Rangabashiam Other Univ	AERO	Manigandan Sekar	S. Ramachandran	Effect of Al ₂ O ₃ and MgO nanofluids in heat pipe solar collector for improved efficiency	25-May 21	Applied Nanoscience	3.674
131.	Ramya Ganesan Abroad Univ	AERO	Abroad Univ	Manigandan Sekar	A detailed scrutinize on panorama of catalysts in biodiesel synthesis	06-02-2021	Science of The Total Environment	7.963
132.	Dr. Manigandan Sekar	AERO		Sekar Manigandan , Praveen Kumar Thaloor Ramesh	Early detection of SARS-CoV-2 without human intervention to combat COVID-19 using drone technology	16-02-2021	Aircraft Engineering and Aerospace Technology	0.975

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133.	SabarathinamShanmugam Abroad Univ	AERO	Abroad Univ	Manigandan Sekar	Pretreatment of second and third generation feedstock for enhanced biohythane production: Challenges, recent trends and perspectives	03-Feb 21 (40, 20)	International Journal of Hydrogen Energy	5.816
134.	Kathirvel Brindhadevi Abroad Univ	AERO	N. Chi	Manigandan Sekar	Effect of reaction temperature on the conversion of algal biomass to bio-oil and biochar through pyrolysis and hydrothermal liquefaction	06-11-2020	Fuel	6.609
135.	ThangavelMathimani	AERO	Arivalagan Pugazhendhi	Manigandan Sekar	Relative abundance of lipid types among <i>Chlorella</i> sp. and <i>Scenedesmus</i> sp. and ameliorating homogeneous acid catalytic conditions using central composite design for maximizing fatty acid methyl ester yield	19-01-2021	Science of The Total Environment	7.963
136.	Ramachandran Sivaramakrishnan	AERO	Arivalagan Pugazhendhi	Manigandan Sekar	Insights on biological hydrogen production routes and potential microorganisms for high hydrogen yield	30-01-2021	Fuel	6.609
137.	KandaWhangchai	AERO	Arivalagan Pugazhendhi	Manigandan Sekar	Synergistic supplementation of organic carbon substrates for upgrading neutral lipids and fatty acids contents in microalga	13-04-2021	Journal of Environmental Chemical Engineering	5.909
138.	Geetanjali Yadav	AERO	L. Chi	Manigandan Sekar	Lipid content, biomass density, fatty acid as selection markers for evaluating the suitability of four fast growing cyanobacterial strains for biodiesel production	04-01-2021	Bioresource Technology	9.642
139.	M.S.Meddah	AERO	M.S.Meddah	Manigandan Sekar	Mechanical and microstructural characterization of rice husk ash and Al ₂ O ₃ nanoparticles modified cement concrete	06-May-2020 (255,20)	Construction and Building Materials	6.141
140.	Gunasekar	AERO	-	S. Manigandan, Praveen Kumar T.R.	Hydrogen as the futuristic fuel for the aviation and aerospace industry – review	23-06-2021	Aircraft Engineering and Aerospace tech	0.975
141.	R.Kaja Bantha Navas, AP	AERO	R.Kaja Bantha Navas	Palaninatha Raja M., SharmilaParveen S., John Rajan A. and Ranjitham Anderson	Six sigma in health-care service: a case study on COVID 19 patients' satisfaction	19 May 2021	International Journal of Lean Six Sigma	3.329
142.	Ghadge, R.R., Research Scholar Dr.S. Prakash Dean	Mechatronics	Prakash,S	Ganorkar, S.A.	Experimental investigations on fatigue life enhancement of composite (e-glass/epoxy) single lap joint with graphene oxide modified adhesive	17 Feb 2021 Vol 8, Issue 2	Materials Research Express	1.620

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143.	Ghadge, R.R., Research Scholar	Mechatronics	Prakash,S	-	Weight minimization of fiber laminated composite beam for aircraft wing construction using exhaustive enumeration algorithm and numerical modeling	18 March 2021	Aircraft Engineering and Aerospace Technology	0.975
144.	Bhingare, N.H., Research Scholar	Mechatronics	Bhingare, N.H.,	Prakash.S	Enhancement in fire retardant Properties of Coconut Coir/Polyurethane acoustic composites.	26 Aug 2020	Journal of Natural Fibres, Taylor and Francis Publications	5.323
145.	Bhingare, N.H., Research Scholar	Mechatronics	Bhingare, N.H.,	Prakash.S	Effect of Polyurethane Resin Addition on Acoustic Performance of Natural Coconut Coir Fiber	03 Nov 2020	Journal of Natural Fibres, Taylor and Francis	5.323
146.	Mr. Manoj Kumar Chaudhary Research Scholar	Mechatronics	Mr. Manoj Kumar Chaudhary	Prakash.S	Experimental investigations and aerodynamic shape optimization of small horizontal axis wind turbine blades	7 April 2021	Transactions of the Canadian Society for Mechanical Engineering	1.450
147.	M.Sangeetha Associate Professor	Mechatronics	K.Brindhadevi	S.Manigandan,B.Ashok, A.Pugazhendhi	Experimental investigation of nano fluid based photovoltaic thermal (PV/T) system for superior electrical efficiency and hydrogen production	Volume 286, Part 2, 21-Oct-2020 119422	Fuel	6.609
148.	M. Sangeetha Associate Professor	Mechatronics	S.Nithya	A.Vasanthaprabhu, Kannan Sivaprakasam,V. Dhinakaran, P. Gunasekar	Surface roughness analysis for newly prepared CNT-coated metal matrix: RSM approach	24 May 2021	Applied Nanoscience	3.674
149.	Dr.B. Kanimozhi Professor	Mechatronics	R. Kesavakumar	P.Rajkumar, R.S.Kumar, S.Mahalingam, VivekThamizhmani, ArunSelvakumar	Kaolinite fines colloidal-suspension transport in high temperature porous subsurface aqueous environment: Implications to the geothermal sandstone and hot sedimentary aquifer reservoirs permeability	05/10/2020.Vol.189/ 101975	Geothermic	4.284
150.	Ms.Aruna/TRS	Mechatronics	Dr.B.Kanimozhi	Sirajunnisa Abdul Razack	Statistical optimization of Closed Loop Pulsating Heat Pipe parameters with R-410a and nanorefrigerant in air conditioning applications	24/05/2021 Vol.1145-51	Energy Source part A: Recovery, Utilization, and Environmental Effects.	3.447
151.	J. Lilly Mercy, Assistant Professor	Mechatronics	J. Lilly Mercy	Sivashankari, M Sangeetha, Kavitha, Prakash S	<i>Genetic Optimization of Machining Parameters Affecting Thrust Force during Drilling of Pineapple Fiber Composite Plates – an Experimental Approach</i>	19 th July 2020	Journal of Natural Fibres, Taylor and Francis Publications	5.323
152.	Mathew Alphonse (Research Scholar)	Automobile	Dr. V. K. Bupesh Raja	Manoj Gupta, K. Logesh	Optimization of Coated Friction Drilling Tool for a FML Composite	Pages 351-361, online 19 Oct 2020	Materials and Manufacturing Processes	4.616

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153.	J Hemanandh	Mechanical	Yuvarajan Devarajan	Ruby Mishra & Nagaraj Meenakshisundaram	Experimental investigation on slaughter, fish waste and poultry excrete oil as fuel blends in diesel engine	20 Jan 21	Biomass Conversion and Biorefinery	4.987
154.	Suresh Ramachandran Claim Dr. S. P. Venkatesan Assoc Professor	Mech Engineerin g	Rameshbabu Arumugam	Suresh Ramachandran, Mohanraj Thangavelu, Logesh Kamaraj , Venkatesan Sorakka Ponnappan , and Rameshbabu Arumugam	Ignition analysis of diesel engine propelled with neat biodiesel containing nanoparticles	06 May 2021.	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	3.447
155.	Mr.Purusothaman Mani Assistant Professor	Mech Engineerin g	Mr.Purusothama n Mani	Valarmathi T N	Experimental investigation of drying characteristics of lima beans with passive and active mode greenhouse solar dryers	28.02.2021, Vol.44(5)	Journal Food Process Engineering	2.356
156.	Mr.Purusothaman Mani Assist Professor	Mech Engineerin g	Mr.Purusothama n Mani	Valarmathi T N	Thin layer modelling and thermal performance of active mode modified greenhouse solar dryers	10.02.2021	Heat and Mass Transfer	2.464
157.	Mr.R.Siva Assistant Professor	Mech Engineerin g	R.Siva	T.N.Valarmathi, K.Palanikumar	Effects of magnesium carbonate concentration and lignin presence on properties of natural cellulosic <i>Cissus quadrangularis</i> fiber composites	30-08-2020 3611-3620	<i>International Journal of Biological Macromolecules</i>	6.953
158.	Nivin Joy Assistant Professor	Mech Engineerin g	Nivin Joy	S.Prakash, A.KrishnamoorthyP.Gunasekar	Characterization of Titanium Grade 5 Alloy Compressor Blade in A Jet Engine Using Advanced Materials for Optimum Thrust Production	November 12, 2020	International Journal of Turbo & Jet-Engines	1.082
159.	Nivin Joy Assistant Professor	Mech Engineerin g	Nivin Joy	S.Prakash, A.KrishnamoorthyA. Anderson	Temperature Evaluation and Performance Comparison of Various Cooling Techniques in Drilling of Grade 5 Titanium Alloy	June 05, 2021	Thermal Science	1.625
160.	Jayaprabakar J Associate Professor	Mech Engineerin g	Jayaprabakar J,	Karthikeyan A, Prabhu A, Nivin Joy, and Anish M	Impact of Methyl, Ethyl, and Butyl Ester Blends of Freshwater Algae Oil on the Combustion, Performance, and Emissions of a CI Engine	July 8, 2020 , 34, 8, 9763–9770	Energy & Fuels	3.605
161.	V.Sriram Assistant Professor	Mech Engineerin g	Dr.B.Kanimozhi	Dr.S.Manigandan	Comparative analysis of hexagonal boron nitride coated on copper winding in the saline-based heat pipe	August 2020/VOLUME 195(2020) 267-274	Desalination and Water Treatment	1.254
162.	Pradeep Uttam Gaikwad Senthil kumar Gnanamani (Supervisor)	Mech Engineerin g	Nithya Subramani	Nithya Subramani	Experimental and numerical simulation of the piston engine fueled with alternative fuel blends: CFD approach	08-Feb-2021	Aircraft Engineering and Aerospace Technology	0.975

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163.	A.Rameshbabu(Research Scholar), G.Senthilkumar(Research Supervisor)*	Mech Engineering	A.Rameshbabu	-	Emission and performance investigation on the effect of nano-additive on neat biodiesel	17-July-2019/43/11	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	3.447
164.	T. Arunkumar Associate Professor CMR Institute of Technology,	Mech Engineering	R.Karthikeyan	G. Anand, Ram Subbiah and Jaya Jeevahan	Effect of Multiwalled Carbon Nanotubes on Improvement of Fracture Toughness of Spark-Plasma-Sintered Yttria-Stabilized Zirconia Nanocomposites,	22-02-2021 30:3925–3933.	Journal of Materials Engineering and Performance on Surface Engineering,	1.819
165.	M. D. F. Al-Aseebee Al-Qasim Green University , Babylon, Iraq	Mech Engineering	JeyaJeevahan Jayaraj	A. H. Rashid, A.S. Naje, T. Maridurai	Influence of rice starch nanocrystals on the film properties of the bionanocomposite edible films produced from native rice starch,	Vol. 16, No. 2, April - June 2021, p. 697 – 704.	Digest Journal of Nanomaterials and Biostructures,	0.963
166.	R B Durairaj Assistant Professor	Mech Engineering	R B Durairaj	Sivasaravanan, D.K.Sharma, S.Ramachandran Heboyan	Investigations on Mechanical Properties of Titanium Reinforced Glass Ionomer Cement (GiC) – Ceramic Composites Suitable for Dental Implant Applications	Vol. 16, No. 1, January - March 2021, p. 161 - 167	Digest Journal of nanomaterials and Biostructures	0.963
167.	S. Ganesan, Associate professor	Mech Engineering	S. Ganesan, Associate professor	Yuvarajan Devarajan, Nagappan Beemkumar, T. Arunkumar	An experimental study on the influence of an oxygenated additive in diesel engine fuelled with neat papaya seed biodiesel/diesel blends	14-Feb-2020	Fuel	6.609
168.	S. Ganesan, Associate professor	Mech Engineering	S. Ganesan, Associate professor	Devaraj Rangabashiam, Balan Kuttinadar Narayanaperumal, &Rameshbabu Arumugam	Experimental study on utilizing peel oil, diesel and ignition-enhancer blends as fuel for diesel engine	4 september 2020,	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	3.447
169.	S. Ganesan, Associate professor	Mech Engineering	S. Ganesan, Associate professor	Yuvarajan Devarajan , Beemkumar Nagappan , Elangovan Kariappan	Experimental investigation on solar-powered ejector refrigeration system integrated with different concentrators	2 Jan 2021	Environmental Science and Pollution Research	4.223
170.	S. Ganesan, Associate professor	Mech Engineering	S. Ganesan, Associate professor	Sathish Kumar Rajamanickam, Mohanraj Manoharan, P Natarajand, and P Rajasekaran	Mechanical and Morphological Characteristics Study of Chemically Treated Banana Fiber Reinforced Phenolic Resin Composite with Vajram Resin	16 Jan2021	Journal of Natural Fibers	5.323
171.	S. Ganesan, Associate professor	Mech Engineering	S. Ganesan, Associate professor	Sujesh Ganitha , Sengottuvelu Ramesh	Modelling of biodiesel blend using optimised deep belief network: blending waste cooking oil methyl ester with tyre pyrolysis oil	21-07-2020 ,14(16)	IET Renewable Power Generation	3.930
172.	S. Ganesan, Associate professor	Mech Engineering	S. Ganesan, Associate professor	Devaraj Rangabashiam ,H. Suresh Babu Rao, Mohanavel Vinayagam	Study of Annona squamosa as alternative green power fuel in diesel engine	24 Feb 2021	Biomass Conversion and Biorefinery	4.987

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173.	S. Ganesan, Associate professor	Mech Engineering	S. Ganesan, Associate professor	Yuvarajan Devarajan · Dineshbabu Munuswamy · Beemkumar Nagappan	Detailed study on the effect of different ignition enhancers in the binary blends of diesel/biodiesel as a possible substitute for unaltered compression ignition engine	30-05-2020	Petroleum Science	4.090
174.	S. Ganesan, Associate professor	Mech Engineering	S. Ganesan, Associate professor	G. Sujesha, S. Ramesh	Effect of CeO2 nano powder as additive in WME-TPO blend to control toxic emissions from a light-duty diesel engine – An experimental study	20-06-2020	Fuel	6.609
175.	S. Ganesan, Associate professor	Mech Engineering	S. Ganesan, Associate professor	Rakesh Kumar Sidheshware, Virendra Bhojwani	Enhancement Of Internal Combustion Engine Efficiency By Magnetizing Fuel In Flow Line For Better Charge Combustion	September 2020,21(5)	Heat Transfer Research	2.443
176.	S. Ganesan, Associate professor	Mech Engineering	S. Ganesan, Associate professor	Aurtherson, P.B., Suresh Babu Rao, H., S., Bhanu Teja, N., Vinayagam, M., Choubey, G.	Production Process Optimization study on the synthesis of Manilkara zapota seed bio-oil and its characterization	06-04-2021	Biomass Conversion and Biorefinery	4.987
177.	S.Dhamodaran & Assistant Professor	CSE	S.Dhamodaran	Dr.M. Lakshmi	Comparative Analysis Of Spatial Interpolation With Climatic Changes Using Inverse Distance Method	09 July 2020,12, pages 6725–6734	Journal of Ambient Intelligence and Humanized Computin	7.104
178.	J. Refonaa , Assistant Professor	CSE	J. Refonaa	Dr. M. Lakshmi	Remote Sensing Based Rainfall Prediction Using Big Data Assisted Integrated Routing Framework	03 January 2021 (Springer Online	Journal of Ambient Intelligence and Humanized Computin	7.104
179.	S. P. Godlin Jasil	CSE	S.P.Godlin Jasil	V.Ulagamuthalvi	Deep learning architecture using transfer learning for classification of skin lesions	17 March 2021	Journal of Ambient Intelligence and Humanized Computng	7.104
180.	Yingying fan (other institute)	CSE	Yingying fan	M. Maheswari	Aerobics players energy level monitoring using iot	26 2021 march	Journal of ambient intelligence and humanized computing	7.104
181.	Jianjuan Liu	CSE	Jianjuan Liu	M.Maheswari	Multi-sensor information fusion for iot in automated guided vehicle in smart city	06/march/2021	Soft computing	3.643
182.	M.Maheswari	CSE	Yohan park	Geetha.s selvakumar.s,marimuthu k,debabrsta samanta	Pevrm: probabilistic evolution based version recommendation model for mobile applications	25/1/2021 volume 9/issn: 2169-3536	IEEE ACCESS	3.367
183.	D.Supriya, Assistant professor, Murugappa polytechnic	CSE	D.Supriya, Assistant professor, Murugappa polytechnic	B. Bharathi	IOV-a novel mechanism for initiating secure vehicle data transmission using PSO with two phase authentication	15 March 2021	Journal of Ambient Intelligence and Humanized Computing	7.104

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184.	N.Gokilavani, Project Lead, CTS	CSE	N.Gokilavani, Project Lead, CTS	B.Bharathi	Test case prioritization to examine software for fault detection using PCA extraction and K-means clustering with ranking	25, pages5163– 5172 , 5-Jan- 2021	Soft computing	3.643
185.	Gokilavani.N	CSE	N.Gokilavani	B.Bharathi –	Multi-Objective based test case selection and prioritization for distributed cloud environment	11-01-2021, 82, 103964	Microprocessors and Microsystems	1.525
186.	N.Anusha, Assistant professor, Andhra pradesh	CSE	N.Anusha, Assistant professor, Andhra pradesh	B.Bharathi	Automatic Flood Detection in Multi-Temporal Sentinel-1 Synthetic Aperture Radar Imagery Using ANN Algorithms	21-04-2020 Vol 15 No 3 (2020)	International Journal of Computers Communications & Control	2.293
187.	Sreekala T	CSE	Sreekala T	Christy A	HFFPNN classifier: a hybrid approach for intrusion detection based OPSO and hybridization of feed forward neural network (FFNN) and probabilistic neural network	16 October 2020	Multimedia Tools and Applications	2.757
188.	P. Maniraj, Asso Professor, SRM	CSE	Maniraj	P.Sardar Maran	Classification of dermoscopic images using soft computing techniques.	11 Apr 2021	Neural Computing and Application	5.606
189.	Dr.K.Ashok kumar	CSE	Ashok Kumar	Varun	Hybrid Semantic Deep Learning Architecture and optimal Advanced Encryption Standard key management scheme for Secure cloud storage and intrusion detection	2021-05-27	Neural Computing and Applications	5.606
190.	S. Nandhini, Assistant professor	CSE	S. Nandhini,	Dr.K.Ashok kumar	Improved crossover based monarch butterfly optimization for tomato leaf disease classification using convolutional neural network	18 February 2021,	Multimedia Tools and Applications	2.757
191.	Varun, research scholar	CSE	Dr.K.Ashok Kumar	Dr.K.Ashok kumar	Integration of recurrent convolutional neural network and optimal encryption scheme for intrusion detection with secure data storage in the cloud	16 May 2021;37:344– 370	Computational Intelligence	2.330
192.	Serin V. Simpson,research scholar	CSE	Serin V. Simpson,researc h scholar	Serin V. Simpson,Nagarajan G	An edge based trustworthy environment establishment for internet of things: an approach for smart cities	4 June,2021,1- 17	Wireless Networks	2.602
193.	Minu Rajasekaran Indra	CSE	Nagarajan.G	Ravi Kumar Divakarla Naga Satya, sundarsingh Jabaseelan,	Fuzzy rule based Ontology Reasoning	July 2020	Journal of Ambient Intelligence and Humanized Computing	7.104

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194.	DhanalakshmiA	CSE	DhanalakshmiA	Dr.G.Nagarajan	Combined spatial temporal based In-loop filter for scalable extension of HEVC	23 April 2020	ICT Express	4.317
195.	DhanalakshmiA	CSE	DhanalakshmiA	Dr.G.Nagarajan	Convolutional Neural Network-based deblocking filter for SHVC in H.265	2 June 2020	Signal, Image and Video Processing	2.157
196.	Antony Jaya Mabel Rani	CSE	Antony Jaya Mabel Rani	Albert Pravin	Rainfall flow optimization based K-Means clustering for medical data	15 April 2021	Concurrency Computation	1.536
197.	Prem Jacob T	CSE	Manikandan Ramachandran	A. Pravin	Differential spectrum access for next generation data traffic in massive-IoT	Volume 82, 10 Jan 2021, 103951	Microprocessors and Microsystems	1.525
198.	V. Kanimozhi	CSE	V.Kanimozhi, & T. Prem Jacob	T. Prem Jacob	Artificial Intelligence outflanks all other machine learning classifiers in Network Intrusion Detection System on the realistic cyber datasetCSE-CIC-IDS2018 using cloud computing	17-Dec-20	ICT Express	4.317
199.	Shalaka Prasad Deore	CSE	Shalaka Prasad Deore	Albert Pravin	Devanagari Handwritten Character Recognition using fine-tuned Deep Convolutional Neural Network on trivial dataset	23 September 2020	Sadhana - Academy Proceedings in Engineering Sciences	1.188
200.	T Daniya	CSE	T Daniya	S Vigneshwari	Deep Neural Networ for disease detection in rice plant using Texture and deep features	19 April 2021	Computer Journal	1.494
201.	M.D.Anto Praveena, Assistant professor, CSE	CSE	M.D.Anto Praveena, Assistant professor, CSE	B.Bharathi	An approach to remove duplication records in healthcare dataset based on Mimic Deep Neural Network (MDNN) and Chaotic Whale Optimization (CWO)	05-04-2021, 29(1), pp. 58–67	Concurrent Engineering Research and Applications	1.038
202.	A. Yovan Felix	CSE	A. Yovan Felix	T. Sasipraba	Spatial and temporal analysis of flood hazard assessment of Cuddalore District, Tamil Nadu, India. Using geospatial techniques	20-08-2020	Journal of Ambient Intelligence and Humanized Computing	7.104
203.	Y.Bevis Jinila, Associate Professor	IT	Y.Bevis Jinila	G.Merlin Sheeba, S.Prayla Shyry	PPSA: Privacy Preserved and Secured Architecture for Internet of Vehicles	19 February 2021 / 118	Wireless Personal Communications	1.671
204.	Dr.P.Jeyanthi & Assistant Professor	IT	Bhamare, B.R	Bhamare, B.R., Prabhu, J.	A supervised scheme for aspect extraction in sentiment analysis using the hybrid feature set of word dependency relations and lemmas	5th Feb 21	PeerJ Computer Science	1.392

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205.	Dr.P.Jeyanthi & Assistant Professor)	IT	K.Perinmbam	R. Usha Kalyani 1 , K. Perinbam 1,* , P. Jeyanthi 2 , Naif Abdullah Al-Dhabi 3 , Mariadhas Valan Arasu 3 , Galal Ali Esmail 3 , Young Ock Kim 4 , Hyungsuk Kim 5 and Hak-Jae Kim 4,*	Fer115, a dysferlin homologue present in vesicles and involved in c2c12 myoblast fusion and membrane repair	9 th November 2020, 9(11), 386; pp1.15	MDPI-BIOLOGY	5.079
206.	Dr.P.Ajitha & Associate Professor	IT	E. M. Malathy	E. M. Malathy, I. R. Praveen Joe & P. Ajitha	Miniaturized Dual-Band Metamaterial-Loaded Antenna for Heterogeneous Vehicular Communication Networks	04 Mar 2021.	IETE Journal of Research	2.333
207.	Dr.S.Revathy Associate professor	IT	Radhika V.	Radhika V. Kulkarni, S. Revathy and Suhas H. Patil,	A Novel Approach to Maximize G-mean in Nonstationary Data with Recurrent Imbalance Shifts”	01 January 21 vol. 18, no. 1, pp. 103-113	The International Arab Journal of Information Technolo	0.669
208.	P.Chandrasekar	Mathematics	P.Chandrasekar	S. Ganesh	Rotating flow through parallel plates with the various inclined magnetic field under the influence of hall current	22 March 2021 ISSN: 1748-8842(Print) 1758- 4213	Aircraft Engineering and Aerospace Technology	0.975
209.	V.W.J.Anand	Mathematics	V.W.J.Anand	S. Ganesh , Seripah Awang Kechil	Comparative study by DTM for unsteady viscous flow between the jet engines combustion unit subjected to inclined magnetic field	2 February 2021/ Vol:93, No.3/ PP.514-528	Aircraft Engineering and Aerospace Technology	0.975
210.	Dr. K. Chennakesavulu, Scientist-C	Chemistry	Dr. K. Chennakesavulu,	Dr. G. Ramanjaneya Reddy	The effect of latitude and PM2.5 on spreading of SARS-CoV-2 in tropical and temperate zone countries	04-07-2020	Environmental Pollution	8.071
211.	K. Chennakesavulu Scientist-C	Chemistry	K. Chennakesavulu	G. Ramanjaneya Reddy P. Sreedevi,G. Bhaskar Raju	Study on interaction of p-sulfonato calix[6]arene with arsanilic acid	27-11-2020	Journal of Dispersion Science and Technology	2.262
212.	Janet Sabina Xavier Asst.prof.	Chemistry	Karthikeyan Jayabalan, Chemistry, SIST	V. Ragavendran, A. NityanandaShetty	Syntheses, quantum mechanical modeling, biomolecular interaction and <i>in vitro</i> anticancer – Tubulin activity of thiosemicarbazones	102 09 July 2020	Bioorganic chemistry	5.275
213.	Janet Sabina Xavier,Asst.prof. Stella Maris Coll	Chemistry	Karthikeyan Jayabalan Chemistry, SIST	V. Ragavendran, A. NityanandaShetty Muthu Tamizh Manoharan	Virtual and experimental high throughput screening of substituted hydrazones on β -Tubulin polymerization	114 13 June 2021	Bioorganic chemistry	5.275
214.	Birendra Nath Mahato	Chemistry	Dr. T. Krithiga	M.A. Mary Thangam (Manonmaniam Sundaranar University)	Rapid adsorption of As(V) from aqueous solution by ZnO embedded in mesoporous aluminosilicate nanocomposite adsorbent: Parameter optimization, kinetic, and isotherms studies	01-09-2020 Vol 23	Surfaces and Interfaces- Elsevier	4.837

S.No	Name of the First Author & Designation	Department	Name of the Corresponding Author	Name of other Co Authors	Title of the Paper	Published date Vol/Issue	Name of the Journal	LF
215.	Dr. T. Krithiga	Chemistry	Dr. J. Aravind Kumar	Sunitha Salla, Karthikeyan Jayabalan	One-pot Synthesis of β -acetamido- β -(phenyl) Propiophenone using ZnO/Carbon Nanocomposites	11 Feb 2021 Vol 24, Issue 2	Combinatorial Chemistry & High Throughput Screening	1.339
216.	AG Ramu Sunitha Salla	Chemistry	Prof. Choi Dongjin, Hongik University.	Sunitha Salla, S. Gopi, P. Silambarasan, D.J. Yang, M.J. Song, Hayssam M. Ali, Mohammed Z. M. Salem	Surface-tuned hierarchical γ -Fe ₂ O ₃ -N-rGO nanohydrogel for efficient catalytic removal and electrochemical sensing of toxic nitro compounds	03-11-2020 2021/4/1 Vol : 268	Chemosphere, Elsevier	7.086
217.	AG Ramu Sunitha Salla	Chemistry	Prof. Choi Dongjin, Hongik University.	Sunitha Salla, Sivaraman Chadrasekaran, P. Silambarasan, S. Gopi, Seung -yoon Seo, Kyusik Yun	A facile synthesis of metal ferrites and their catalytic removal of toxic nitro-organic pollutants	11-11-2020 Vol : 270	Environmental Pollution, Elsevier	8.071
218.	Durairaj Gopalakrishnan Sunitha Salla	Chemistry	Mani Ganeshpandian, SRM University	S. Saravanan, Ronald Merckx, Arumugam Madan Kumar, Themmila Khamrang, Marappan Velusamy, K. Vasanth, S. Sunitha, Richard Hoogenboom, Samarendra Maji	N,N-Ru(II)-p-cymene-poly(N-vinylpyrrolidone) surface functionalized gold nanoparticles: from organoruthenium complex to nanomaterial for antiproliferative activity	25 th May 2021 Vol : 50	Dalton Transactions, Royal Society of Chemistry	4.390
219.	M. Manjula, Assistant Professor	Physics	Pandiyarasan Veluswamy	M. Muthumari, S. Krishnaveni, Denis kuznetsov	Influence of Ternary and Quaternary Inclusion on Bandgap Tuning of CaTe: Prediction of Potential Thermoelectric Mate	18 January 2021, 50, 1759 - 1771	Journal of Electronic Materials	1.938
220.	J.Anita Lett, Assistant professor	Physics	J. Anita Lett , Suresh Sagadevan	Selvaraj Vennila, Lakshmi pathy Muthukrishnan, Baranya Murugan, Motalib Hossain, Faruq Mohammad, Hamad A Al-Lohedan, Solhe F Alshahateet, Is Fatimah	Facile fabrication of Au-loaded CdO nanoconstructs with tuned properties for photocatalytic and biomedical applications	9 th January 2021	Journal of Nanostructure in Chemistry	6.391

S.No	Name of the First Author & Designation	Department	Name of the Corresponding Author	Name of other Co Authors	Title of the Paper	Published date Vol/Issue	Name of the Journal	IF
221.	J.Anita Lett, Assistant professor	Physics	Suresh Sagadevan, Won Chun Oh	Suriati Paiman, Faruq Mohammad Romana Schirhagl, EstelleLéonard, Solhe F.Alshahateet	Exploring the thumbprints of Ag-hydroxyapatite composite as a surface coating bone material for the implants	Volume 9, Issue 6, 21-09-2020 Pages 12824-12833	Journal of Materials Research and Technology	5.039
222.	J.Anita Lett, Assistant professor	Physics	Suresh Sagadevan	Fatimah, Md EnamulHoque, YogeswaranLokanathan, EstelleLéonard, Solhe F.Alshahateet, RomanaSchirhagl, Won ChunOh	Recent advances in natural polymer-based hydroxyapatite scaffolds: Properties and applications	Volume 148, 5 20-02-2021	European Polymer Journal	4.598
223.	J.Anita Lett, Assistant professor	Physics	J. Anita Lett	Solhe F Alshahateet, Baranya Murugan, Ainil Hawa Jasni, Is Fatimah, MA Motalib Hossain, Faruq Mohammad, Won Chun Oh	Synthesis and characterization of polypyrrole-coated iron oxide nanoparticles	Volume 8, , 9 th 12-02-2021, 025007	Materials Research Express	1.620
224.	M. Divya, Research Scholar	Physics	A. Joseph Arul Pragasam	P. Malliga, P. Sagayaraj, A. Joseph Arul Pragasam	Analysis on Dielectric, Thermal, and Mechanical Characteristics of Nickel Boro Phthalate NLO Crystal for Optoelectronic Applications	19/06/2021	Crystal Research and Technology	1.639
225.	D.S.Jayalakshmi, Assistant Professor	Physics	D.S.Jayalakshmi	M.Sundareswari, E. Viswanathan	Theoretical Prediction of Possible Coexistence Of Superconductivity And Antiferromagnetism In Novel Srferubi ₂ , Srru ₂ bi ₂ And Parent Srfe ₂ bi ₂ Compounds	Vol. 81, Iss. 2, 2019	University Politehnica of Bucharest Scientific Bulletin Series A	0.903
226.	D.S.Jayalakshmi, Assistant Professor	Physics	D.S.Jayalakshmi	M. Sundareswari, E. Viswanathan, D. Hemanand and Venkat Pranesh	Computational study on unconventional superconductivity and mechanical properties of novel antiferromagnetic (Ca,Sr,Ba)Fe ₂ Bi ₂ compounds	Vol. 33, No. 28 (2019) 1950341	International Journal of Modern Physics B	1.219
227.	A victor Babu	Physics	A victor Babu	A Victor Babu, S Murugan, D C BerniceVictoria, S Joshua Gnanamuthu and S Ravichandran	A novel study on augmented physical parameters of nickel doped stannic oxide film,	Volume 7, Number 12 9 December 2020	Mater. Res. Express	1.620
228.	S. Ravichandran	Physics	S. Ravichandran	K.Pushpanathan, Suresh Sahadevan, A.R.Marlinda, Faruq.M, Hamad.A, AI Lohedan, M.R.Johan	Influence of graphene concentration towards the thermo-acoustic and vibrational properties of grapheme-polyvinyl alcohol nano composites	26-03-2021 32, PP 10359–10367 2021.	Journal of Materials Science: Materials in Electronics	2.478

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229.	Marwa Mostafa Moharam	Physics	Ahmed Esmail Shalan	K. Vijai Anand, Diao EL-Rahman Ahmed Rayan Mustafa K. A. Mohammed Mohamed Mohamed Rashad	Semiconductors as Effective Electrodes for Dye Sensitized Solar Cell Applications	09 April 2021	Topics in Current Chemistry	9.060
230.	P. Thamizharasu	Physics	S. Shanmugan	K. Vijai Anand , L. Lamberti , Meena Laad , S. Sivakumar , Catalin I. Pruncu , A.E. Kabeel , J. Nagaraj , Lakshmi Sarvani Videla	Revealing an OSELM based on traversal tree for higher energy adaptive control using an efficient solar box cooker	15 March 2021	Solar Energy	5.742
231.	D.Prabu & Associate Professor	Chemical Engineering	P.Senthil Kumar	S.Sathish, K.Vijai Anand, M.Varsha, Joy Mercy, Akansha Tiwari	Potential of nanoscale size zero valent iron nanoparticles impregnated activated carbon prepared from palm kernel shell for cadmium removal to avoid water pollution	5th october 2020/05	International Journal of Environmental and Analytical Chemistry	2.826
232.	D.Prabu & Associate Professor	Chemical Engineering	P.Senthil Kumar	S.Sathish, Kilaru Harsha Vardhan, Alan Raju, John Mathew	Adsorptive elimination of methylene blue dye from aquatic system using biochar produced from cocoa shell	november 2020/203	Desalination and Water treatment	1.254
233.	A Annam Renita & Professor	Chemical Engineering	P Senthil Kumar	Kilaru Harsha Vardhan, P Senthil Kumar, P Tsopbou Ngueagni, A Abilarasu, Subi Nath, Pallavi Kumari, R Saravanan	Effective removal of malachite green dye from aqueous solution in hybrid system utilizing agricultural waste as particle electrodes	Volume 273, 15 Jan 2021, 129634	Chemosphere	7.086
234.	A Annam Renita & Professor	Chemical Engineering	Sunitha Salla	Shanthana Lakshmi Duraikannu	Synthesis of Acid Free Benzaldehyde by Highly Selective Oxidation of Benzyl Alcohol Over Recyclable Supported Palladium Catalyst Bentham Science (eurekaselect.com)	29 December 2020	Combinatorial Chemistry & High Throughput Screening	1.339
235.	Magesh N.	Chemical Engineering	Annam Renita A.	Senthil Kumar P. & Stanley Abraham L	Adsorption of ciprofloxacin from aqueous solution using surface improved tamarind shell as an economical and effective adsorbent	14-06-2021/	International Journal of Phytoremediation	3.212
236.	J.Aravind Kumar, Assistant Professor	Chemical Engineering	Dr. Saikat Dutta	T.Krithiga, K.Vijai Anand, S.Sathish, S.Karthick Raja, A.A.Renita, Ahmad-Hosseini, T.R.Praveen kumar, M.Rajasimman, N.S.Bhat, Saikat Dutta	Kinetics and regression analysis of phenanthrene adsorption on the nanocomposite of CaO and activated carbon: Characterization, regeneration, and mechanistic approach	334 (2021) 116080 15 April 2021	Journal of molecular liquids	6.165

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237.	J.Aravind Kumar, Assistant Professor	Chemical Engineering	Dr.T.Krithiga	P.Senthil Kumar, T.Krithiga, D.Prabu, D.Joshua Amarnath, s.Sathish, D.Venkatesan, Ahmad Hosseini. B, P.Prashant	Acenaphthene adsorption onto ultrasonic assisted fatty acid mediated porous activated carbon-characterization, isotherm and kinetic studies	(2021) 131249 24 June 2021	Chemosphere	7.08 6
238.	S.Sathish, Associate Professor	Chemical Engineering	Vaithyasubramanian, S.,	Narendrakumar, G., Sinduri, E.	Mechanistic model for the batch extraction of oil from avocado seeds available for biofuel production	29 May 2021	International Journal of Green Energy,	2.45 9
239.	D. Venkatesan Assistant Professor	Chemical	D. Venkatesan	D. Joshua Amarnath and K. Saravanakumar	Thermophysical Properties of Binary Mixtures of Diisopropyl Ether with Methyl Benzoate, Ethyl Benzoate, and Benzyl Acetate at Various Temperatures	06 August 2020	Russian Journal of Physical Chemistry A	0.69 1
240.	K. Saravanakumar Claim- D. Vengatesan	Chemical	K. Saravanakumar	Naveen Prasad, B.S., Senthilkumar, R., Reddy Prasad, D.M., Venkatesan, D.	Single and competitive sorption potential of date seed-derived biochar during removal of lead (II) and cadmium (II) ions	25-May-21	Environmental Progress & Sustainable Energy	2.43 1
241.	S Majeed,	Biomedical Engineering	S Majeed, Sathyabama University	M Danish, MNM Ibrahim, SH Sekeri, MT Ansari, Anima Nanda	Bacteria Mediated Synthesis of Iron Oxide Nanoparticles and Their Antibacterial, Antioxidant, Cytocompatibility Properties	04 September 2020	Journal of Cluster Science, 1-12	3.06 1
242.	S. Karthick Raja Namasisvayam	Biotechnology	S. Karthick Raja Namasisvayam	Jerry Angel, R.S. Arvind Bharani, C. Valli Nachiyar	<i>Terminalia chebula</i> and <i>Ficus racemosa</i> principles mediated repression of novel drug target Las R – the transcriptional regulator and its controlled virulence factors produced by multiple drug resistant <i>Pseudomonas aeruginosa</i> - Biocompatible formulation against drug resistant bacteria	14-08-2020	Microbial Pathogenesis	3.73 8
243.	Renugadevi K	Biotechnology	Valli Nachiyar C	Moin Zaveri	Bioactivity of Dodecanoic Acid Extracted from <i>Geitlerinema</i> sp. TRV57	Feb 2021	Indian Journal of Pharmaceutical Education and Research	0.68 6
244.	Jayakrishna Tippabathani Research Scholar	Biotechnology	Dr. Jayshree Nellore Professor		Temporal changes in key developmental transcription factors in dopamine neurons during MPP+ induced injury and recovery in zebrafish brain	Vol. 58, February 2021, pp. 45-55	Indian Journal of Biochemistry & Biophysics	1.91 8

S.No	Name of the First Author & Designation	Department	Name of the Corresponding Author	Name of other Co Authors	Title of the Paper	Published date Vol/Issue	Name of the Journal	IF
245.	M.Vaishnavi (student)	Biotechnology	Dr.M.Radhakrishnan	Dr.S.Usha Nandhini	Antibacterial and anti-HIV activity of extracellular pigment from Streptomyces .sp.S45 isolated from sabarimala forest soil, india	Dec 2020 /58	Indian Journal of Experimental Biology	0.818
246.	Neehrika. D (B.Tech Bioinformatics, SIST)	Bioinformatics	Dr. Swetha Sunkar	nil	Computational approach for the identification of putative allergens from Cucurbitaceae family members	26-05-2020	Journal of Food Science and Technology	3.713
247.	Dr. Swetha Sunkar (Associate Prof, Bioinformatics)	Bioinformatics	Dr. Swetha Sunkar	nil	<i>CYP2R1 and CYP27A1 genes: An in silico approach to identify the deleterious mutations, impact on structure and their differential expression in disease conditions</i>	25-04-2020	Genomics	5.736
248.	Archana Vasuki-Student	Bioinformatics	Jemmy christy	Vivek Chandramohan, Alex Anand	<i>Study of mangal based naphthoquinone derivatives anticancer potential towards chemoresistance related Never in mitosis gene A-related kinase 2-Insilico approach</i>	28 th June 2021	Molecular Simulation	2.178
249.	Vaishnavi. M (Student)	Dept of Biotechnology, SIST	Dr. M. Radhakrishnan	K. Manigundan, Thania smalia, V. Gopikrishnan, Ashok Kumar, Luke Elizabeth Hanna, S. Ushanandhini, and Wilson	Antibacterial and anti-HIV activity of extracellular pigment from Streptomyces sp. S45 isolated from Sabarimala forest soil, India	Dec 2020; 58; 861-868.	Indian Journal of Experimental Biology	0.783
250.	Y.Swarnalatha	Higher Studies	Y.Swarnalatha	Seema Sidharthan, Shanthirappa Udaiyar Sivakkumar	Protective role of heptamethoxyflavone on LPS-induced hepatotoxicity	02 Dec 2020	Toxin Reviews	4.266
251.	C. Manoj Kumar, Assistant Professor	Civil	C. Manoj Kumar	Dr.M.Mageswari	Incorporation of nanocatalyst and its behaviour in green concrete structures: mechanical and microstructural study	28/01/2021	Applied Nanoscience	3.674
252.	S. Packialakshmi, Associate Professor	Civil	S. Packialakshmi	Nagamani.K, Ambujam N.K	Assessment of groundwater potential using geospatial techniques for urbanized Mambakkam mini-watershed, Kancheepuram district, India	Vol 49(12), Dec 2020	Indian Journal of Geomarine Sciences	0.496
253.	S. Ebin Horrison Associate Professor	Architecture	Dr. Lilly Rose	-	Urban heat island intensity and evaluation of outdoor thermal comfort in Chennai, India.	26 March 2021 / Online	Environment, Development and Sustainability	3.219
254.	R. Pandian, Assoc Professor	EIE	R.Pandian	S.LalithaKumari	Characterization of Alzheimer MRI Image based on Image Compression Techniques	November 2020 ,79/11	Journal of Scientific and Industrial Research	1.056
255.	R. Pandian, Assoc Professor	EIE	R.Pandian	S.LalithaKumari	ROI based Hybrid Compression for DICOM Images	August 2020.79/08	Journal of Scientific and Industrial Research	1.056

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256.	T. Thaj Mary Delsy & Assistant Professor	EIE	T.Thaj Mary Delsy	Dr.N.M.Nandhitha & Dr.B.Sheela Rani	Feasibility of Recurrent Neural Network for the Binary Classification of Non Stationary Signals	10-01-2021 volume 82, April 2021	Microprocessor and Microsystems	1.525
257.	G. Rajalakshmi & Assistant Professor	EIE	G.Rajalakshmi	Dr.A.Gopal	Performance evaluation of preprocessing techniques for near-infrared spectroscopy signals	05-11-2020-online-	Microprocessors and Microsystems	1.525
258.	V. Amala Rani/ Research Scholar	EIE	V. Amala Rani	S. Lalithakumari	Efficient Medical Image Fusion Using 2-DimensionalWT to improve Quality Metrics	08-Jun-21	IEEE Instrumentation & Measurement Magazine,	1.505
259.	Dr.RADHIKA S, Asso. Prof.	EEE	Dr.Radhika S	F. Albu and A. Chandrasekar	Steady State Mean Square Analysis of Standard Maximum Versoria Criterion Based Adaptive Algorithm	vol. 68, no. 4, pp. 1547-51, 20 Oct 20	<i>IEEE Transactions on Circuits and Systems II</i>	3.292
260.	Dr.Bharathi.M.L /Assistant Professor	EEE	Dr.Bharathi.M.L /Assistant Professor	Fathima Kamal R.. Karthick,Harikrishnan	Fuzzy Logic controlled Maximum Power Point Tracking for SEPIC converter fed DC drive - A hybrid Power Generation System	12 Nov 2020, 103371	Microprocessors and Microsystems/ELSEV IER	1.525
261.	D.N .S Ravi Kumar	EEE	D.N .S Ravi Kumar	Dr.S Barani	Epidemic and transmission priority based data dissemination model in vehicular adhoc networks (VANETs)	24 th Oct 2020	Peer-to-Peer Networking and Application	3.307
262.	P.Sivagami & Assistant Professor	EEE	P.Sivagami	Dr.N.M.Jothiswaroopan	IOT based statistical performance improvement technique on the power output of photovoltaic system	18 April 2020	Journal of Ambient Intelligence and Humanized Computin	7.104
263.	P.Sivagami & Assistant Professor	EEE	P.Sivagami	Dr.N.M.Jothiswaroopan	Smart methodology for performance improvement of energy sources for home application	17 Feb 2020	Microprocessors and Microsystems	1.525
264.	M. Kavitha, Assistant Professor	EEE	M. Kavitha	V.Sivachidambaranathan	New improved two-phase interleaved converter with clamp circuit and diode capacitor cell	28-02-2020	Microprocessors and Microsystems	1.525
265.	Geetha. V	EEE	Geetha. V	V.Sivachidambaranathan	Performance evaluation of half bridge AC– AC resonant converter by using various load in domestic purpose of induction heating app	26 July 2020, 12, pages7085 –7093 (2021)	Journal of Ambient Intelligence and Humanized Computin	7.104
266.	C.Bhuvaneswari	Eee	C.Bhuvaneswari	R. Samuel Rajesh Babu	Error Measurement of LCC Resonant Converter for X-Ray	30/6/2020;Vol 56, No.4 , pp 375-385	Russian Journal of Non-destructive Testing	0.692
267.	DR.S.Nirmalraj	EEE	DR.S.Nirmalraj	DR.G.Nagarajan	Fusion of visible and infrared image via compressive sensing using convolutional sparse representation	27.11.20	ICT EXPRESS	4.317
268.	DR.S.Nirmalraj	EEE	DR.S.Nirmalraj	DR.G.Nagarajan	Biomedical image compression using fuzzy transform and deterministic binary compressive sensing matrix	19 May 2020	Journal of Ambient Intelligence and Humanized Computin	7.104

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269.	DR.S.Nirmalraj	EEE	DR.S.Nirmalraj	DR.G.Nagarajan	An adaptive fusion of infrared and visible image based on learning of sparse fuzzy cognitive maps on compressive sensing	2019 Oct 28:1-1	Journal of Ambient Intelligence and Humanized Computing	7.104
270.	V.Senthil Nayagam	EEE	V.Senthil Nayagam	L.Premalatha	Optimization of power losses in electric vehicle battery by wireless charging method with consideration of the laser optic effect	07 January 2020 Volume: 53 issue: 3-4	Measurement & Control	1.704
271.	M.Pushpavalli & Assistant Professor	EEE	M.Pushpavalli & Assistant Professor	Dr.N.M.Jothi swaroopan	KY converter with fuzzy logic controller for hybrid renewable photovoltaic/wind power system	26 June 2020	Transactions on Emerging Telecommunications Technologies	2.638
272.	P Madasamy	EEE,	Lucian Mihet-Popa, ostfold university college, Norway	Rameshbabu A EEE	Neutral point clamped transformer less multilevel converter for Grid connected PV system	19th April 2021 Vol.10 (8),No.977	MDPI Electronics	2.397
273.	P Madasamy	EEE,	Bharatiraja C, EEE, SRM, Chennai	J Barnabas Paul Glady	Hybrid Multicarrier random space vector PWM for the Mitigation the acoustic noise in VSI fed induction motor drive	19th June 2021 10(12) ,1483	MDPI Electronics	2.397
274.	V.Meenakshi ,Assistant professor	EEE	V.Meenakshi	Dr.S.Paramasivam	Design of LCL filter in front end converters suitable for grid connected wind electric generators	Vol.78(12)Dec ember 2019	Journal of Scientific and Industrial research	1.056
275.	Ancy Mergi.A (Researc Scholar)	ECE	Godwin Premi.M.S.	Nil	Implementation analysis of pixel-level image processing based on multiscale transforms	03 August 2020	Computational Intelligence	2.330
276.	Mahalingam Dr M Subramoniam	ECE	Mr.Mahalingam	Affiliation is in Sathyabama university	Optimal Object Detection and Tracking in Occluded Video Using DNN and Gravitational Search Algorithm	05 Nov 2020/Vol 24	Soft Computing	3.643
277.	Dr.M.Subramoniam	ECE	Mr.Binson V A	NIL	Design and Development of an e-nose System for the Diagnosis of Pulmonary Disease	06.01.2021/Vo 1 23/Issue 1	Acta of Bioengineering and Biomechanics	1.073
278.	Megalan Leo L Assistant Professor	ECE	Megalan Leo L	T Kalpalatha Reddy	Learning compact and discriminative hybrid neural network for dental caries classification	05-01-2021	Microprocessors and Microsystems	1.525
279.	Anita Daniel. D / Research Scholar	Faculty of Electronics	Emalda Roslin. S	Nil	Data validation and integrity verification for trust based data aggregation protocol in WSN	23 October 2020	Microprocessors and Microsystems	1.525
280.	Muthiah M.A Assistant Professor	ECE	Muthiah M.A	Dr.E.Logashanmugam, Dr.N.M.Nandhitha	Performance Evaluation of Conventional CNN Architectures and Modified ALEXNET for the Classification of Potatoes by Thermal Imaging	23 November 2020/56	Russian Journal of Nondestructive Testing	0.692

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281.	Gopi Krishna Durbhaka and Barani Selvaraj	ECE	Tanzila Saba	Mamta Mitta, Amjad Rehman and Lalit Mohan Goyal	Swarm-LSTM: Condition Monitoring of Gearbox Fault Diagnosis based on Hybrid LSTM Deep Neural Network Optimized by Swarm Intelligence Algorithms	26 Nov 2020	Computers, Materials & Continua	3.772
282.	J. Adeline Sneha	ECE	Rekha Chakravarthi	Nil	Identification, behavior analysis, and control of snail pest in agricultural fields using signal analysis and nanoparticles	20 April 2021	Applied Nanoscience	3.674
283.	Aravind, A.R	ECE	Aravind, A.R	Rekha Chakravarthi	Fractional rider optimization algorithm for the optimal placement of the mobile sinks in wireless sensor networks	15.12.2020	International Journal of Communication Systems	2.047
284.	G JEGAN	ECE	T Samraj Lawrence	P.Kavi Priya, D Singaravelu, T Vino	Synthesis, Mechanical, and Tribological Performance Analysis of Stir-Casted AA7079: ZrO ₂ + Si ₃ N ₄ Hybrid Composites by Taguchi Route	19th june 2021, Volume: 2021 Article id:7722370,	Advances in Materials Science and Engineering	1.726
285.	Jamuna Rani D, Research Scholar	Faculty of Electronics	S Emalda Roslin	Nil	Optimized Implementation of Gift Cipher	07 March 2021	Wireless Personal Communications	1.671
286.	Varadala Sridhar, Research Scholar	Faculty of Electronics	S .EmaldaRoslin	nil	Latency and Energy Efficient Bio Inspired Conic Optimized and Distributed Q Learning for D2D Communication in 5G	05 April 2021	IETE Journal of Research	2.333
287.	Sudheera, K.	ECE	N. M. Nandhitha	Sai, V.P.B.V., Kumar, N.V.	Deep Learning Techniques for Flaw Characterization in Weld Pieces from Ultrasonic Signals	21 December 2020, 56(10),	Russian Journal of Nondestructive Testing	0.692
288.	Dr.V.ANU, Reader	Public Healt Dentistry	Dr.V.ANU	Soundharyasri, Preman Srisruthi, Madhumithra, H Sreemadhumitha, A Sornambiga	Chennai tobacco vendors compliance to India's cigarette and other tobacco products Act (COTPA) 2003-A descriptive evaluation	17 Oct 2020, 58 (Issue 1)	Indian Journal of Cancer	1.224

Books Published

6 BOOKS PUBLISHED

S.No	Department	Name of the Faculty	Name of the Book	ISBN Number
1.	Centre for drug discovery and development	Dr. M. Radhakrishnan Dr.Jerrine Joseph and Dr.V. Gopikrishnan	Protocols in Actinobacterial Research	978-1-0716-0728-2
2.	ECE	Dr.Bernatin	Implementation of H.264 Video Codec for Low band width Radio	978-81-942515-7-6
3.	ECE	Mr. Megalan Leo.L	An Energy Efficient Wireless Communication Technoogy for Ban	978-620-3-30510-4
4.	ECE	Dr.M.Subramoniam	Machine Learning in Orthopedics	978-620-2-67690-8
5.	ECE	Dr.S.Barani	Routing protocol and wireless sesnor network	978-620-2-56528-8
6.	English	Dr. Arun. G	The Law on Equal Remuneration	978-81-953568-1-2
7.	Mathematics	Dr.R.Raja Kumar	Traffic congestion detection and management using VANET and CR-VANET	978-613-8-94647-2
8.	Mathematics	Mr.R. Delhi Babu	Analysis of MHD flow between parallel plates with an angular velocity	978-620-2-68279-4
9.	Mathematics	Mr.R. Delhi Babu	MHD flow between parallel porous plates with an angular velocity	978-613-9-96692-9
10.	Mathematics	Mr.R. Manoharan	My contributions like R^* -perfect sets and R^* -topology to Ideal spaces	978-620-2-80233-8
11.	Mechanical	Mr.Ganesan Subbiah	Influence of Synthetic Composite Catalytic Converter On Engine Emission	978-620-3-2-0067-6

6.1 BOOK CHAPTERS

S. No	Department	Name of the Faculty	Title of the Chapter	Name of the Book
1.	Architecture	Arulmalar Ramaraj	Utilization of PCPW as Secondary Resources in Architecture: Challenges, Pre-processes and Opportunities	Planning, Progress and Challenges of Built Environments
2.	Architecture	Arulmalar Ramaraj	A Framework for Assessing the Creativity Manifested in the Emergent Outcomes of Open-Ended Tasks Based on a “Puzzle”	Creativity - A Force to Innovation
3.	Architecture	Arulmalar Ramaraj	Monograph	Investigating recontextualization to develop an upcycled application
4.	Automobile Engineering	Dr.V.K.Bupesh Raja	Product Lifecycle of Automobiles	Techno-Societal 2020. Springer, Cham
5.	Automobile Engineering	Dr.V.K.Bupesh Raja	Scope for Bridging Industry-Academia Gap During Covid-19	Innovative Teaching and Learning Process during COVID 19
6.	Automobile Engineering	Dr.V.K.Bupesh Raja	Industry and Academia Strategic Partnership for Skill Improvement with Multidisciplinary Method in Engineering Education a Novel Approach Afterward Covid-19	Innovative Teaching and Learning Process during COVID 20
7.	BTE	Dr.M.Masilamani Selvam	Study of Physico-Chemical and Biological Parameters of A Mangrove Ecosystem.	Research Methodology - Volume 3
8.	BTE	Dr. Jayshree Nellore	Overview of female specific cancer’s biology	A Theranostic and Precision Medicine Approach for Female-Specific Cancers-
9.	Centre for drug discovery and development	Dr. M. Radhakrishnan	Diversity and bioprospecting potentials of Antarctic (Polar) microbes	Host microbe interactions
10.	Centre for drug discovery and development	Dr. M. Radhakrishnan	Antimicrobial peptides from actinobacteria - current status and future prospects	Microbial and Natural Macromolecules
11.	Centre for drug discovery and development	Dr. M. Radhakrishnan	Screening methods for the detection of antagonistic actinobacteria: facts and problems	Recent advances in microbiology and biotechnology
12.	Centre for drug discovery and develop	Dr. M. Radhakrishnan	Nanoparticles in Environmental Cleanup	Recent advances in microbiology and biotechnology
13.	Centre for drug discovery and development	Dr. M. Radhakrishnan	Actinobacteria in earthworm cast and gut : Distribution and bioactivities	Recent advances in biology

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14.	Centre for drug discovery and development	Dr. Jerrine Joseph	Bar Coding Significance in Establishing Evolutionary Link in Plants	Cucurbita: Biology, Distribution and Habitat.
15.	Centre for drug discovery and development	Dr. Jerrine Joseph	Methods of Identification and Validation of Drug Target	Recent advances in microbiology and biotechnology
16.	Centre for drug discovery and development	Dr. Jerrine Joseph	Application of Bioinformatic Tools for Phylogenetic Analysis	Recent advances in microbiology and biotechnology
17.	Centre for drug discovery & development	Dr. S. Kumaran	Integrated Omics Approaches to Infectious Diseases	Proteomics in the Study of Host-Pathogen Interactions
18.	Centre for Earth & Atmospheric sciences	P.M.Velmurugan, B.Prabhu Dass Batvari, P. Sardar Maran and P.Mohana	Environmental Impact of a Tanning Industries on Groundwater Quality of Chromepet and Pallavaram, Chennai, Tamilnadu, India: with Special reference to Chromium.	Pollution in groundwater and its remedy.
19.	Centre for Earth & Atmospheric sciences	Dr. P. Mohana, Dr. P. M. Velmurugan and Dr. B. Prabhu Das Batvari	Evaluation of Heavy metal pollution of groundwater in Arani Taluk of Tamil Nadu, South India	Pollution in groundwater and its remedy.
20.	Centre for Molecular and Nanomedical Sciences	Dr. S. Johnson Retnaraj Samuel	E-Waste Management - Rising Concern On Existed Problems, Modern Perspectives and Innovative Solution	Handbook of Solid Waste Management. Sustainability through Circular Economy
21.	Centre for Molecular and Nanomedical Sciences	Dr. S. Johnson Retnaraj Samuel	Impact of Biomedical Waste Management System on Infection Control in the Midst of COVID-19 Pandemic	Environmental Sustainability for Green Societies (The Impact of COVID-19 Pandemic)
22.	Centre for Ocean Research	D. Inbakandan	Transcriptomics in Aquaculture	Encyclopedia of Marine Biotechnology
23.	Centre for Ocean Research	L. Stanley Abraham	Biomedical applications of carbon based nanomaterials	Biomaterials Science and Engineering
24.	Centre for Ocean Research	L. Stanley Abraham, R. Vasantharaja, R. Thirugnanasambandam, K.M. Smitha, D. Inbakandan, P. Premasudha	Seaweed: A potent source of bioactive compounds	Phytomedicine Research and Development
25.	Centre for Ocean Research	K.Govindaraju	Impact of Nanomaterials on Beneficial Insects in Agricultural Ecosystem	Nanotechnology for Food, Agriculture, and Environment

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26.	Ocean Research	K.Govindaraju	Biogenic Nanomaterials Using Moringa and Their Applications	The Moringa Genome
27.	Centre for Ocean Research	T. Stalin Dhas	Current progress in the solid-state fermentation and utilization of agro industrial residues for the production of biologically active secondary metabolites	Green Sustainable Process for Chemical and Environmental Engineering and Science
28.	Centre for Remote Sensing and Geoinformati	Dr.K.Nagamani	Industrial Wastewater Treatment using Coconut Shell Charcoal Based Activated Carbon	Pollution in groundwater and its remedy
29.	Centre for Remote Sensing and Geoinformati	Marykutty Abraham	Numerical Modelling for Groundwater Recharge	Groundwater Resources Development and Planning in the Semi-Arid Region
30.	Centre for Remote Sensing and Geoinformati	Dr.P.Mohana	Environmental Impact of a Tanning Industries on Groundwater Quality of Chromepet and Pallavaram, Chennai, Tamilnadu, India: with Special reference to Chromium	Pollution in groundwater and its remedy
31.	Centre for Remote Sensing and Geoinformati	Dr.P.Mohana	Evaluation of Heavy metal pollution of groundwater in Arani Taluk of Tamil Nadu, South India	Pollution in groundwater and its remedy
32.	Centre for Remote Sensing and Geoinformati	Dr.P.Mohana	Water Quality Assessment Of Rice Mill Zones At Arani In Tamilnadu, India	Pollution in groundwater and its remedy
33.	Chemical Engg	S.Sathisj/J.Aravind Kumar/D.Prabu	Advances in Green Polymer/Ceramic Nanocomposite for a Sustainable Environment	Handbook of Polymer and ceramic nanotechnology
34.	Chemical Engg	Annam Renita.A	Valorization of Waste Algal Bloom for value added products	Bioprocess Engineering for Bioremediation
35.	Chemical Engg	D Venkatesan	Synthesis, Properties, and Applications of Polymer Nanocomposites Matrices	Handbook of Polymer and Ceramic Nanotechnology
36.	Chemistry	Dr. T. Krithiga	Carbon Nanotubes: Synthesis, Properties and Applications	21st Century Surface Science - A Handbook-Intechopen
37.	Chemistry	Dr. T. Krithiga	Green Composites from Medicinal Plants	Green Composites-Springer
38.	Chemistry	Dr. T. Krithiga	Green Composites from Renewable sources	Green Composites-Springer
39.	Chemistry	Dr. S. Supriya	Recent Study on Synthesis and Characterization of Mannich Aminomethylation Products of Metal(Alaninato)complexes using 1-Nitropropane as the carbon acid	Current Perspectives on Chemical Sciences

S. No	Department	Name of the Faculty	Title of the Chapter	Name of the Book
40.	CIVIL	S.Packialakshmi	Activated carbon prepared from agricultural waste and its application for pollution Removal, "Research trends in Chemical Sciences"	Research trends in Chemical Sciences
41.	CIVIL	S.Packialakshmi	Review of Continuous Fixed-Bed Column Adsorption In Removing Pollutant In Wastewater" in the Book titled "Recent Advancements in Engineering and Technology	Recent Advancements in Engineering and Technology
42.	CIVIL	V. Sampath Kumar	Water Quality Assessment of Rice Mill Zones at Arani in Tamilnadu, India"	Pollution in groundwater and its remedy
43.	CIVIL	V. Sampath Kumar	Enhancement of Sustainable Transport for Urban Roads in Metro Cities	Solid State Technology
44.	CIVIL	B Priyadarshini	Numerical Modelling for Groundwater Recharge	Groundwater Resources Development and Planning in the Semi-Arid Region
45.	CIVIL	C.Manoj Kumaar	Light Weight Concrete by Natural Material	Light Weight Concrete by Natural Material
46.	CNSNT	S. Ajith Kumar	Enhancing the ionic conductivity in ceria based electrolytes for IT SOFC	<i>Intermediate Temperature Solid Oxide Fuel Cells</i>
47.	CNSNT	Dr. K. Gobi Saravanan	Characterization of Surface Coatings	Polymetallic Coatings to Control Biofouling in Pipelines: Challenges and Potential
48.	CNSNT	Dr. K. Gobi Saravanan	Metallic Coatings	Polymetallic Coatings to Control Biofouling in Pipelines: Challenges and Potential
49.	CNSNT	Dr. K. Gobi Saravanan	Introduction to Surface Coatings	Polymetallic Coatings to Control Biofouling in Pipelines: Challenges and Potential
50.	CNSNT	Dr. K. Gobi Saravanan	Biofouling and Biocorrosion	Polymetallic Coatings to Control Biofouling in Pipelines: Challenges and Potential
51.	CSE	D. Vishnu Vardhan, D. Gopeeswar, A. Viji Amutha Mary	A Novel Biometric Inspired Robust Security Framework for Medical Images	Advances in Smart Grid and Renewable Energy

S. No	Department	Name of the Faculty	Title of the Chapter	Name of the Book
52.	CSE	S. Keerthi Vasam, S. Jancy, Mercy Paul Selvan, Viji Amutha Mary	Proficient Data Retrieval Technique in Cloud Using TF- IDF Model	Advances in Power systems and Energy Management
53.	CSE	Saketh Kanumuri, Vinay Teja Kantipudi, A. Viji Amutha Mary, Mercy Paul Selvan	Detection of Ransomware Based on Recurrent Neural Network (RNN)	Advances in Smart Grid and Renewable Energy
54.	CSE	Hemanth Chebrolu, Saikumar Buragadda, A. Viji Amutha Mary, Jancy	Blockchain Integration in House Voting System	Advances in Smart Grid and Renewable Energy
55.	CSE	Prayla Shyry, S., Saranya, M., Mahithaa Sree, M	Efficiency Improvement in Code Emulation by Soft Computing Technique	Lecture Notes on Data Engineering and Communications Tech
56.	CSE	S Prayla Shyry	Biometric-Based Three-Tier Microservice Architecture for Mitigating the Fraudulent Behaviour	Lecture Notes in Electrical Engineering
57.	CSE	Shyry, S.P., Srivanth, P., Thomson, D.	A normal approach of online signature using stroke point warping – A survey	Advances in Intelligent Systems and Computing
58.	CSE	Vaithyasubramani an, S., Lalitha, D., Christy, A., Mary Metilda, M.I.	Array Password Authentication Using Inhibitor Arc Generating Array Language and Colored Petri Net Generating Square Arrays of Side 2k	Smart Innovation, Systems and Technologies
59.	CSE	Phani Sankar, P., Anil Kumar, P., Bharathi, B.	Blockchain-Based Incentive Announcement In Vanet Using CreditCoin	Lecture Notes in Electrical Engineering
60.	CSE	Kunam, B.K.R., Mallidi, A.R., Vigneshwari, S.	PRSSDF: Page Rank Specific Student Discussion Forum	Lecture Notes in Electrical Engineering
61.	CSE	Vishnu Bharadwaj, S., Vigneshwari, S	Statistical Analysis of Literacy Rates Using Indian Census Data	Lecture Notes in Networks and Systems
62.	CSE	Mangaleswaran, S., Vigneshwari, S.	Prediction of Housing Prices Using Machine Learning, Time Series ARIMA Model and ANN	Lecture Notes in Electrical Engineering
63.	CSE	Priyanka, M.D., Renuka, P., Christy, A.	Leveraging Affective Hashtags for Ranking Music Recommendations	Lecture Notes in Electrical Engineering
64.	CSE	Aparna, O., Kuncham, P.P., Christy, A.	Intrusion Detection System Based on Secure Hashing Techniques	Lecture Notes in Electrical Engineering
65.	CSE	Reddy, A.U.M., Hareesh, A.S., Ankayarkanni, B.	An Internal Adversary Model to Prevent Selective Jamming Attacks	Lecture Notes in Electrical Engineering

S. No	Department	Name of the Faculty	Title of the Chapter	Name of the Book
66.	CSE	Saqhline, A., Krishna, V.V., Ankayarkanni, B.	An Efficient Approach for Patterns of Oriented Motion Flow Facial Gesture Classification Using Depth Video	Lecture Notes in Electrical Engineering
67.	CSE	Thomas, B., Angelin, B., Ankayarkanni, B	Attribute-Based Encryption in Multi-owner Setting	Lecture Notes in Electrical Engineering
68.	CSE	Geetha, G., Mohana Prasad, K.	Survey on real-time diabetic patient's monitoring using internet of things	Lecture Notes in Networks and Systems
69.	CSE	Venkatesh, K., Somasekhar, K.H., Vignesh, R.	An Extensible Framework for Effective Visualizing and Predicting Crimes Using Big Data Analytics	Lecture Notes in Electrical Engineering
70.	CSE	Sujan, P.S., Ashok, R., Mana, S.C., Samhitha, B.K., Jose, J.	An Efficient Implementation of a Proposed Food Quality Ensuring Architecture Using Blockchain Technologies	Lecture Notes in Electrical Engineering
71.	CSE	Pavan, R., Kiriti, P., Keerthi Samhitha, B., Mana, S.C., Jose,	A Novel Machine Learning-Based Ship Detection for Pre-annotated Ship Database	Lecture Notes in Electrical Engineering
72.	CSE	Tejo Vinay, M., Lukeshnadh, M., Keerthi Samhitha, B., Mana, S.C., Jose, J.	A Robust and Intelligent Machine Learning Algorithm for Software Testing	Lecture Notes in Electrical Engineering
73.	CSE	Hari Hara Suthan, B., Jagannath, S.M., Hari Narasimhan, M., Sasikala, T.	Detection of Crop Diseases Using Agricultural Drone	Lecture Notes in Electrical Engineering
74.	CSE	Gopi, N., Reddy, N.T.K., Sasikala,	Predicting Bike Rental Based on Environment and Seasons	Lecture Notes in Electrical Engineering
75.	CSE	Samhitha, S.L., Shravani, S., Sasikala, T.	Effective Gene Mapping System with Disease Prediction and Corrective Measures	Lecture Notes in Electrical Engineering
76.	CSE	Vishnupriya, S., Selvaambigai, B., Vigneshwari,	Supporting Privacy Protection in Personalized Web Search	Lecture Notes in Electrical Engineering
77.	CSE	Kala, V.S.S., Bhavyasri, V., Vigneshwari,	Face Recognition Based Attendance System and Emotion Classification	Lecture Notes in Electrical Engineering
78.	CSE	Rodrigues, J.S., Nachiketha Raju, N., Jany Shabu, S.L., Refonaa, J., Jayakumar,	Implementing Urban Surveillance Systems in Smart Cities by Automated Object Detection Using Convolution Neural Network	Lecture Notes in Electrical Engineering

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79.	CSE	Refonaa, J, Jany Shabu,S.L, Dhamodaran, S., Mythili B Vineetha	Classification and Mapping of Adaptive Security for Mobile Computing	Lecture Notes in Electrical Engineering
80.	CSE	Refonaa, J., Deepika, B., Bhavana, T., Dhamodaran, S., Jany Shabu, S.L.	Dynamic Symmetric Encryption Over E-mail in Cloud Server	Lecture Notes in Electrical Engineering
81.	CSE	Nikhil, G., Bhaskar, G.V., Anto Praveena, M.D.	A Smart Sharing of Traffic Causes Information-Based Blockchain	Lecture Notes in Electrical Engineering
82.	CSE	Ranjana, S., Sathian, R., Kamalesh, M.D.	Fake Profile Detection in Facebook	Lecture Notes in Electrical Engineering
83.	CSE	Shalini, B., Rakshana, M., Kamalesh, M.D.	Driver's Stress Analysis and Automated Emergency Call Using IOT and Data Analytics	Lecture Notes in Electrical Engineering
84.	CSE	Geetha, G., Mohana Prasad, K.	Survey on real-time diabetic patient's monitoring using internet of things	Lecture Notes in Networks and Systems
85.	CSE	Vasan, S.K., Jancy, S., Selvan, M.P., Mary, V.A.	Proficient Data Retrieval Technique in Cloud Using TF-IDF Model	Lecture Notes in Electrical Engineering
86.	CSE	Kalyan, K.P., Gangadhar, K., Jancy, S., Selvan, M.P.	Automatic Optimization and Allocation of Data Using Q-Learning Technique	Lecture Notes in Electrical Engineering
87.	CSE	Varma, K.L., Reddy, K.S., Jancy, S., Selvan, M.P.	Classification and Prediction of Text Data by Using a Natural Language Processing Algorithm	Lecture Notes in Electrical Engineering
88.	CSE	Kanumuri, S., Kantipudi, V.T., Mary, A.V.A., Selvan, M.P.	Detection of Ransomware Based on Recurrent Neural Network (RNN)	Lecture Notes in Electrical Engineering
89.	CSE	Selvan, M.P., Bagio, R., Rithesh,, Mary, V.A.	Computer Vision-Based Approach for Indian Sign Language Character Recognition Using CNN and ROI Segmentation	Lecture Notes in Electrical Engineering
90.	CSE	Vamsi, S., Raviteja, R., Selvan, M.P., Gladence, M.	Enabling Ternary Hash Tree-Based Integrity Verification for Secure Cloud Data Storage	Lecture Notes in Electrical Engineering
91.	CSE	Selvan, M.P., Sowmith, R.S., Dheeraj, P., Jancy, S.	High Secured Data Access and Leakage Detection Using Attribute-Based Encryption	Lecture Notes in Electrical Engineering

S. No	Department	Name of the Faculty	Title of the Chapter	Name of the Book
92.	CSE	Mohith, T., Rakesh, T., Yogitha, R.	A Unified Analysis of Bank Customer Using Machine Learning	Lecture Notes in Electrical Engineering
93.	CSE	Revanth, P., Venkata Krishna, P., Santha Sheela,	Novel Embedding Based Ranking Approach for Effective Product Marketing on E-Commerce Websites	Lecture Notes in Electrical Engineering
94.	CSE	Preetha, A., Gayathri, S., Santha Sheela,	IoT-Based Traffic Congestion Monitoring and Theft Alarm	Lecture Notes in Electrical Engineering
95.	CSE	Simpson, S.V., Nagarajan, G.	SEAL—Security-Aware List-Based Routing Protocol for Mobile Ad Hoc Network	Lecture Notes in Electrical Engineering
96.	CSE	Sreeram, S., Nagarajan, G.	EDA-PEGASIS: A Balanced Energy Aware Routing Approach for Sensor Network to Reduce Cognitive Networking Complexities in Wireless Medium	Lecture Notes in Electrical Engineering
97.	CSE	Sajith, P.J., Nagarajan, G.	Optimized Intrusion Detection System Using Computational Intelligent Algorithm	Lecture Notes in Electrical Engineering
98.	CSE	Kathika, V.V., Jagadeesh Babu, K.S.G., Pravin, A., Prem Jacob, T., Nagarajan, G.	Content-Based Image Retrieval in Cloud Image Repositories	Lecture Notes in Electrical Engineering
99.	CSE	Harsha Vardhan, V., Sri Dileep Kumar, V., Nagarajan, G., Prem Jacob, T., Pravin, A.	An Integrated & Robust User Authentication Framework Based on Gait Smart Devices	Lecture Notes in Electrical Engineering
100.	CSE	Mukesh Kalyan Varma, Monesh Venkul Vommi, Ramya G Franklin	Multi-layer Security in Cloud Storage Using Cryptography	Lecture Notes in Electrical Engineering
101.	CSE	Athota Manoj Kumar, Atchukola Sai Gopi Kanna, Ramya G Franklin	Diabetic Retinopathy Detection	Lecture Notes in Electrical Engineering
102.	CSE	B. Melanshiya,P. Mirium Swarna, Ramya G. Franklin	Twitter Topic Analysis Using Multi-tweet Sequential Summarization for Sentimental Data	Lecture Notes in Electrical Engineering
103.	CSE	P. Karthika, Ramya.G.Franklin	A Model for Achieving Keyword Search on Dynamic Encrypted Cloud Data with Symmetric Key Based Verification	Lecture Notes in Electrical Engineering

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104.	CSE	Harshath Kamalnath Mareedu, K. Gopinath, R. Sathya Bama Krishna	Predicting the Farmland for Agriculture from the Soil Features Using Data Mining	Advances in System,Control and Automations
105.	CSE	R. Sathya Bama Krishna,Talupula Rahila,Thummala Jahnavi	Question Paper Generator and Result Analyzer	Advances in System,Control and Automations
106.	CSE	R. Sathya Bama Krishna,Talupula Rahila,Thummala Jahnavi	Online Crime Reporting System—A Model	Advances in System,Control and Automations
107.	CSE	Ashok, N., Manoj, T.V.S., Usha Nandini, D.	Unique and Dynamic Approach to Predict Schizophrenia Disease Using Machine Learning	<i>Lecture Notes in Electrical Engineering</i>
108.	CSE	Thodupunoori, R.G., Ummadisetty, P.S., Usha Nandini, D.	A System for Informed Prediction of Health	<i>Lecture Notes in Electrical Engineering</i>
109.	CSE	Mandanapu, Y., Krishna, M., Gopinath, U.T., Usha Nandini, D	My Device—Fog: Integrative Mapping, Tracking, and Identification of Device Id, Location, and User Info	<i>Lecture Notes in Electrical Engineering</i>
110.	CSE	Gopinath, B., Kaliamoorthy, M., Ragupathy, U.S., Nandini, D.U., Maheswar, R.	State-of-the-Art and Emerging Trends in IOT for Smart Cities	Innovations in Communications and Engineering
111.	CSE	Suja Cherukullapurath Mana, B. Keerthi Samhitha, D. Deepa R. Vignesh	Analysis on Application of Fog Computing in Industry 4.0 and Smart Cities	Lecture Notes on Data Engineering and Communications Technologies
112.	CSE	Suja Cherukullapurath Mana, T.Sasipraba	Analysis on Applying the Capabilities of Deep Learning Based Method for Underwater Fish Species Classification	Lecture Notes in Networks and Systems
113.	CSE	A.C. Santha Sheela, C. Jayakumar	Semantic Based Duplicate Web Page Detection	Lecture Notes in Electrical Engineering
114.	CSE	T.Durga Nagarjuna, T.Anil Kumar and A.C.Santha Sheela	Privacy Preserving and Loss Data Retrieval in Cloud Computing using Bucket Algorithm	Lecture Notes in Electrical Engineering

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115.	CSE	B.Suresh, A.C.Santha Sheela	Finding Smelly or Non Smelly Using injected or Revision Method	Lecture Notes in Electrical Engineering
116.	CSE	A. Preetha, S. Gayathri, A. C. Santha Sheela	IoT-Based Traffic Congestion Monitoring and Theft Alarm	Lecture Notes in Electrical Engineering
117.	CSE	Pathuri Revanth, P. Venkata KrishnaA. C. Santha Sheela	Novel Embedding Based Ranking Approach for Effective Product Marketing on E-Commerce Websites	Lecture Notes in Electrical Engineering
118.	CSE	Singh, A., Choudhary, S., Mary Posonia, .	Live Bus Tracking System	Lecture Notes in Electrical Engineering
119.	CSE	Nandi, S., Mary Posonia, A.	e-Commerce Site Pricing and Review Analysis	
120.	CSE	A. Sivasangari, T. Ananthi, D. Deepa, G. Rajesh, and X. Mercilin Raajini	Security and privacy in wireless body sensor networks using lightweight cryptography scheme	Elsevier
121.	CSE	Khonde, S.R., Kulanthaivel, G.,Ulagamuthalvi , V.	An Ensemble Approach for Intrusion Detection in Collaborative Attack Environment	Smart Innovation, Systems and Technologies(Springers Link)
122.	CSE	A. Sivasangari, R.M. Gomathi, A. Jesudoss, L. Lakshmanan, K. Indira, T. Samraj Lawrence	Smart Trust Management Scheme for Detecting Attacks in IoT and Ubiquitous Computing	CRC, Taylor & Francis Group
123.	CSE	G. Vasudha Reddy, G. Deepika, and A. Jesudoss	Comparative Analysis of GUI- Based Prediction of Parkinson Disease by Speech Using Machine Learning Approach	Springer LNEE
124.	CSE	K. S. S. N. Krishna and A. Jesudoss	A Proficient Model for Action Detection Using Deep Belief Networks	Springer LNEE
125.	CSE	Asha P., Prince Mary S., Usha Nandhini D., Krishnan S.	Estimation of Vehicle Count, Class, and Speed on Highways Using a Computer Vision-Based Technique.	Cognitive Informatics and Soft Computing, Springer
126.	CSE	Asha P., Deepika K., Keerthana J., Ankayarkanni B.	A Review on False Data Injection in Smart Grids and the Techniques to Resolve Them.	New Trends in Computational Vision and Bio-inspired Computing, Springer
127.	CSE	T. Sasikala, S. Vigneshwari, G. Nagarajan, and S. Vimala	Reliability and Authenticity of Cloud Based Technologies in Mobile Grid Environment Using Parameter-Based Malicious Node Detection Method	Taylor & Francis Cloud Reliability Engineering (RE) Technologies and Tools

S. No	Department	Name of the Faculty	Title of the Chapter	Name of the Book
128.	CSE	Amandeep Singh K	CROP Yield Forecast Using A Hybrid Framework Of Deep Cnn With Rnn Technique	
129.	ECE	L.Magthelin Therase	Evolution of 1G to 4G Technologies in Mobile Communication	Advances in Electronics and Communication Engineering
130.	ECE	E.Anna Devi	Evolution of 1G to 4G Technologies in Mobile Communication	Advances In Electronics And Communication Engineering Volumes
131.	ECE	R. M. Joany	Evolution of 1G to 4G Technologies in Mobile Communication	Advances in Electronics and Communication Engineering
132.	ECE	S Yogalakshmi	Evolution Of 1G To 4G Technologies In Mobile Communication	Advances In Electronics And Communication Engineering Volumes
133.	ECE	Megalan Leo.L	Analog Receivers and its Characteristics in the Communication Domain	Advances in Electronics and Communication Engineering (Vol - 1)
134.	ECE	T Gomathi	A High Capacity Secured Stegnography Scheme Using Dwt	Dwt System
135.	ECE	T Gomathi	Monograph On Smart Voting System Using Matlab And Aadhaar Card	Smart Voting System
136.	ECE	Poonguzhali S	Wireless Solar Power Transmission.	Lap Lambert Academic Publishing
137.	ECE	G.D. Anbarasi Jebaselvi, U. Anitha, R. Narmadha, Harikiran Nimmagadda, Manish Kumar Reddy Nangi	Design and development of 33GHz micro strip patch antenna for 5G wireless communication	Recent Trends in Communication and Electronics
138.	ECE	U. Anitha, R. Narmadha, G.D. Anbarasi Jebaselvi, S. Lavanya Kumar, P. Raja Shekhar Reddy	Real time estimation of calories from Indian food picture using image processing techniques	Recent Trends in Communication and Electronics
139.	ECE	Anitha U., Anbarasi Jebaselvi G.D., Narmadha R., Vardhan V., Pavan S.	Object Detection from the Seabed Imaging Data Using Soft Computing Techniques	Soft Computing for Intelligent Systems, Springer, Singapore

S. No	Department	Name of the Faculty	Title of the Chapter	Name of the Book
140.	ECE	Narmadha R., Krishna Prasanth Varma P., Hemanth Kumar P., Anitha U., Anbarasi Jebaselvi G.D.	Smart Fingerprint Authentication Using Amazon Web Services	Soft Computing and Signal Processing , vol 1340. Springer, Singapore.
141.	ECE	Dr. P. Grace Kanmani Prince	Characterization of Signals of Noncontact Respiration Sensor for Emotion Detection Using Intelligent Techniques	Computational Intelligence in Healthcare, 161-174
142.	ECE	Dr.R.Narmadha, U. Anitha	Object Detection from the Seabed Imaging Data Using Soft Computing Techniques	Soft Computing for Intelligent Systems/SPRINGER
143.	ECE	Dr.R.Narmadha, G.D.Anbarasi jebaselvi	Smart Fingerprint Authentication Using Amazon Web Services	Advances in Intelligent Systems and Computing/SPRINGE R
144.	ECE	Dr.V.Vijaya Baskar	Underwater Ambient Noise	Noise and Environment
145.	ECE	S. Emalda Roslin	Analysis of Skin Lesions using machine learning techniques, Computational Intelligence and Its Applications in Healthcare	Computational Intelligence and Its Applications in Healthcare, Elsevier
146.	ECE	S. Emalda Roslin	Feasibility of Intelligent Techniques for Automated Positioning of Servomotors	Springer Lecture Notes in Networks and Systems
147.	ECE	S. Emalda Roslin	Optimizing Energy Efficiency in Device-to-Device Communication Using Intelligent Algorithms	Springer, Soft Computing Techniques and Appl's
148.	ECE	S. Emalda Roslin	Impact of Segmentation Techniques for Condition Monitoring of Electrical Equipments from Thermal Images	Intelligent Sustainable Systems. Lecture Notes in Networks and Systems, Springer,
149.	ECE	S. Emalda Roslin	Feasibility of InfraRed Thermography for Health Monitoring of Archeological structures	Smart Intelligent Computing and Communication Technology
150.	ECE	N.M.Nandhitha	Feasibility of Intelligent Techniques for Automated Positioning of Servomotors	Lecture Notes in Networks and Systems
151.	ECE	N.M.Nandhitha	Feasibility of Convolutional Neural Networks (CNN) for Content Based Image Retrieval of Images from Hadoop	Smart Intelligent Computing and Communication Technology
152.	ECE	N.M.Nandhitha	Feasibility of Infrared Thermography for Health Monitoring of Archeological Structures	Smart Intelligent Computing and Communication Technology

S. No	Department	Name of the Faculty	Title of the Chapter	Name of the Book
153.	ECE	Dr.T.Ravi	Li-Fi Transceiver For Data, Audio And Video Signal Transmission	Li-Fi Transceiver For Data, Audio And Video Signal Transmission
154.	ECE	Dr.T.Ravi	IoT Based RGB LED Information Display System	Advances in intelligent systems and computing
155.	ECE	S.Lakshmi	IoT BASED IRRIGATION SYSTEM	Taylor and francis group
156.	ECE	S.Lakshmi	Lecture Notes on Data Engineering and Communications Technologies-r	LNDECT, volume 63
157.	ECE	M.R.Ebenazar Jebarani	IOT-Based Smart Irrigation Systems	Industry 4.0 Interoperability, Analytics, Security, and Case Studies
158.	ECE	Dr. P. Kavipriya	IOT-Based Smart Irrigation Systems	Industry 4.0 Interoperability, Analytics, Security, and Case Studies
159.	ECE	Dr.I.Rexiline Sheeba	Design,analysis,fabrication and investigation flexible microstrip antenna for biomedical applications	Flexible softwear Microstrip Antenna
160.	ECE	T.Ravi, M.Sugadev, S.Karthikeyan,	Li-Fi Transceiver For Data, Audio And Video Signal Transmission	Li-Fi Transceiver For Data, Audio And Video Signal Transmission
161.	ECE	T Kavya Sree, V Swetha, M Sugadev, T.Ravi,	IoT Based RGB LED Information Display System	Advances In Intelligent Systems And Computing/ Springer
162.	EEE	D.Susitra	MNLR and ANFIS based Inductance Profile Estimation for Switched Reluctance Machine - DOI: 10.5772/intechopen.96555	Emerging Electric Machines - Advances, Perspectives and Applications - http://mts.intechopen.com/articles/show/title/mnlr-and-anfis-based-inductance-profile-estimation-for-switched-reluctance-motor
163.	EEE	D.Susitra	Dragonfly Algorithm for Optimal Allocation of D-STATCOM in Distribution Systems	Advances in Intelligent Systems and Computing
164.	EEE	D.Susitra	Estimation of Magnetic Flux Linkage in SRM Using Various Defuzzification Techniques	Springer - Intelligence and Evolutionary Computations in Engineering Systems volume 1361

S. No	Department	Name of the Faculty	Title of the Chapter	Name of the Book
165.	EEE	D.Susitra	DC Smart Grid System for EV Charging Station	Advances in Intelligent Systems and Computing
166.	EEE	M.Pushpavalli	Analysis Of Solar And Windmill Using Real Time Simulation Tool	EAI/Springer Innovations in Communication and Computing
167.	EEE	M.Pushpavalli	Grid Connected Pv System With Electrical Appliances, Electric Vehicles And Battery Systems Investigation Using Pv Sol Software	EAI/Springer Innovations in Communication and Computing
168.	EEE	P.Abirami	Solar Energized Re-Boost Converter For Improved Power Quality	EAI/Springer Innovations in Communication and Computing
169.	EEE	Dr.S.Nirmalraj	PWM Based Motor Speed Control Using PIC Micro Controller	EAI/Springer Innovations in Communication and Computing
170.	EEE	P.Sivagami	Implementation Of Intelligent Control Technique For Fly Back Converter Based Photovoltaic System	EAI/Springer Innovations in Communication and Computing
171.	EEE	P.Sivagami	Smart Home Automation System Methodologies-A Review	IEEE DIGITAL XPLORER
172.	EEE	P.Sivagami	IoT Ecosystem-A survey on Classification of IoT	EAI/Springer Innovations in Communication and Computing
173.	EEE	M.Kavitha	Dam Flood Prevention through Data Analysis using Automatic Control System	EAI/Springer Innovations in Communication and computing
174.	EEE	M.Pushpavalli	Virtual plan of the Domestic enlistment warming frame-work to reproduce Electromagnetic boundaries	International Conference
175.	EEE	P.Sivagami	Simulation and Analysis of hybrid Energy Resources in Chennai using HOMER Software	International Conference
176.	EEE	C.Bhuvanewari	Biometric and IOT Technology Based safety transactions in ATM	International Conference
177.	EEE	C.Bhuvanewari	Tuning of PID Controller with Differential Evolution Algorithm for LCC Resonant Converter	Journal Of Physics, Conference Series
178.	EEE	C.Bhuvanewari	Comparison of Grasshopper optimization Algorithm Flower Pollination Algorithm in Congestion Management	International Conference

S. No	Department	Name of the Faculty	Title of the Chapter	Name of the Book
179.	EEE	S D Sundarsingh Jebaseelan	Fuzzy logic controller based UPFC for voltage profile improvement in a smart grid	International Conference
180.	EEE	Bharathi.M.L	Intelligent Maximum Power Point Tracking for PV Powered Converter	EAI/Springer Innovations in Communication and Computing
181.	EEE	Bharathi.M.L	Hydrogen Hybrid Machine	EAI/Springer Innovations in Communication and Computing
182.	EEE	Bharathi.M.L	Fault Diagnosis Of Induction Motor Drive Using Motor Current Signature Analysis	EAI/Springer Innovations in Communication and Computing
183.	EEE	D.Susitra	Dragonfly Algorithm for Optimal Allocation of D-STATCOM in Distribution Systems	Advances in Intelligent Systems and Computing book series (AISC, volume 1056)
184.	EEE	D.Susitra	DC Smart Grid System for EV Charging Station	Advances in Intelligent Systems and Computing book series (vol. 1056)
185.	EEE	S.Radhika	Convex Combination of Maximum Versoria Criterion-Based Adaptive Filtering Algorithm for Impulsive Environment	Advances in Intelligent Systems and Computing book series (AISC, volume 1056)
186.	EEE	D.Godwin Immanuel	An Overview of Bootstrap Converter for Grid connected Wind Energy Conversion System	Ieee Digital Xplorer
187.	EEE	D.Godwin Immanuel	Bridgeless PFC Rectifier for Single Stage Resonant Converter with Closed Loop and Improved Dynamic Response	Ieee Digital Xplorer
188.	EEE	S.Jayaprakash	Machine Learning-Based Optimization Technique for Forecasting the Solar Radiation	Journal Of Physics, Conference Series
189.	EEE	S.Jayaprakash	Sliding Mode Control and Fuzzy With MPPT Control Based PV Integrated Grid System	Journal Of Physics, Conference Series
190.	EEE	V.Senthil Nayagam	Grid Interfaced Windfarm Using Dynamic Voltage Restorer for Power Compensation with Pv Fed Sepic Converter	Journal of Physics: Conference Series
191.	EEE	P.Abirami	Implementing pv energized srspm-based single-phase inverter for induction motor	Advances In Smart Grid Technology

S. No	Department	Name of the Faculty	Title of the Chapter	Name of the Book
192.	EEE	Ramya.D	Intelligent Maximum Power Point Tracking for PV Powered Converter	EAI/Springer Innovations in Communication and Computing
193.	EEE	Ramya.D	Hydrogen Hybrid Machine	EAI/Springer Innovations in Communication and Computing
194.	EEE	Ramya.D	Fault Diagnosis Of Induction Motor Drive Using Motor Current Signature Analysis	EAI/Springer Innovations in Communication and Computing
195.	IT	SivasangariP. AjithaE.Bruman aL. SujihelenG. Rajesh	Data Security and Privacy Functions in Fog Computing for Healthcare	Springer
196.	IT	Dr.A.Sivasangari	Security and Privacy in Wireless Body Sensor Networks Using Light Weight Cryptography Scheme	Elsevier
197.	IT	Dr.A.Sivasangari	EELC: Energy-efficient lightweight cryptography for IoT networks	Elsevier
198.	IT	A. Sivasangari, D. Deepa, Chiung Ching Peter Ho, M.S. Roobini, R. Vignesh	Energy Conservation in IOT based Intelligent Transport System	CRC Press,Tailor and Fransis
199.	IT	A. Sivasangari, R.M. Gomathi, A. Jesudoss, L. Lakshmanan, K. Indira, T. Samraj Lawrence	Smart Trust Management Scheme for Detecting Attacks In IoT and Ubiquitous Computing	CRC Press,Tailor and Fransis
200.	IT	Dr.A.Sivasangari, Dr.Lakshmanan, Dr.P.Ajitha,Dr.Jabez	Big Data Analytics for 5g-enabled IoT Healthcare	Springer
201.	IT	Grace Kanmani Prince, R. Rajkumar Immanuel, B. Revathy, A. Sivasangari	Characterization of Signals of Noncontact Respiration Sensor for Emotion Detection Using Intelligent Techniques	Springer
202.	IT	Dr.R.Subhashini	Smart Computerized Essay Scoring Using Deep Neural Networks for Universities and Institutions	Handbook of Smart Technology Models for Business and Industry
203.	IT	J. S. Vimali ,Senduru Srinivasulu,J. Jabez ,S. Gowri	Hand Gesture Recognition Control for Computers Using Arduino	Data Intelligence and Cognitive Informatics

S. No	Department	Name of the Faculty	Title of the Chapter	Name of the Book
204.	IT	S. Gowri,J. Jabez ,J. S. Vimali,A. Sivasangari,Senduru Srinivasulu	Sentiment Analysis of Twitter Data UsingTechniques in Deep Learning	Data Intelligence and Cognitive Informatics
205.	IT	Dr.S.Revathy, Dr.Gowri, Dr.Bharathi	Gestational Diabetes Prediction using Logistic Regression using R	New Trends in Computational Vision and Bio-inspired Computing(Springer)
206.	IT	Ms.Blessy, Dr.S.Revathy	A Perspective View on Sybil Attack Defense Mechanisms in Online Social Networks.	New Trends in Computational Vision and Bio-inspired Computing(Springer)
207.	IT	Jinila Y.B., Reddy D.G., Reddy G.Y.	An Integrated and Dynamic Commuter Flow Forecasting System for Railways	Lecture Notes in Electrical Engineering
208.	IT	Thomas, J. J., Wei, L. T., Jinila, Y . B., & Subhashini, R.	Smart Computerized Essay Scoring Using Deep Neural Networks for Universities and Institutions.	Handbook of Research on Smart Technology Models for Business and Industry
209.	IT	J. S. Vimali ,Senduru Srinivasulu,J. Jabez ,S. Gowri	Hand Gesture Recognition Control for Computers Using Arduino	Data Intelligence and Cognitive Informatics
210.	IT	S. Gowri,J. Jabez ,J. S. Vimali,A. Sivasangari,Senduru Srinivasulu	Sentiment Analysis of Twitter Data UsingTechniques in Deep Learning	Data Intelligence and Cognitive Informatics
211.	IT	R. Jeberson Retna Raj Senduru Srinivasulu	Analyzing Heterogeneous Satellite Images for Detecting Flood Affected Area of Kerala	Advances in Intelligent Systems and Computing
212.	IT	S. Gowri Senduru Srinivasulu J. JabezJ. S. VimaliA. Sivasangari	Discovery of Localized Malicious Attack in Wireless Networks	Smart Computing Techniques and Applications pp 207-216
213.	IT	Jeberson Retna Raj	A Comprehensive Study on Ransomware Attacks in Online Pharmacy Community	Lecture Notes in Networks and Systems
214.	IT	Jeberson Retna Raj	A study on image hashing techniques for implementing deduplication	Lecture Notes in Networks and Systems
215.	Mathematics	Dr.R.Raja Kumar	Integrated power and subcarrier assignment by cooperative communications in LTE A networks	Advanced Engineering Research and Applications XIII
216.	Mathematics	L. Prasanna Venkatesh	Viscous Oscillatory Exponentially Stratified Flow Through Parallel Plates"	Advances in Materials and Mechanical Engineering
217.	Mechanical	Dr.G.Arunkumar	Design of Compliant Mechanisms for Engineering Support - A Topology Optimisation Approach	Advanced Aspects of Engineering Research

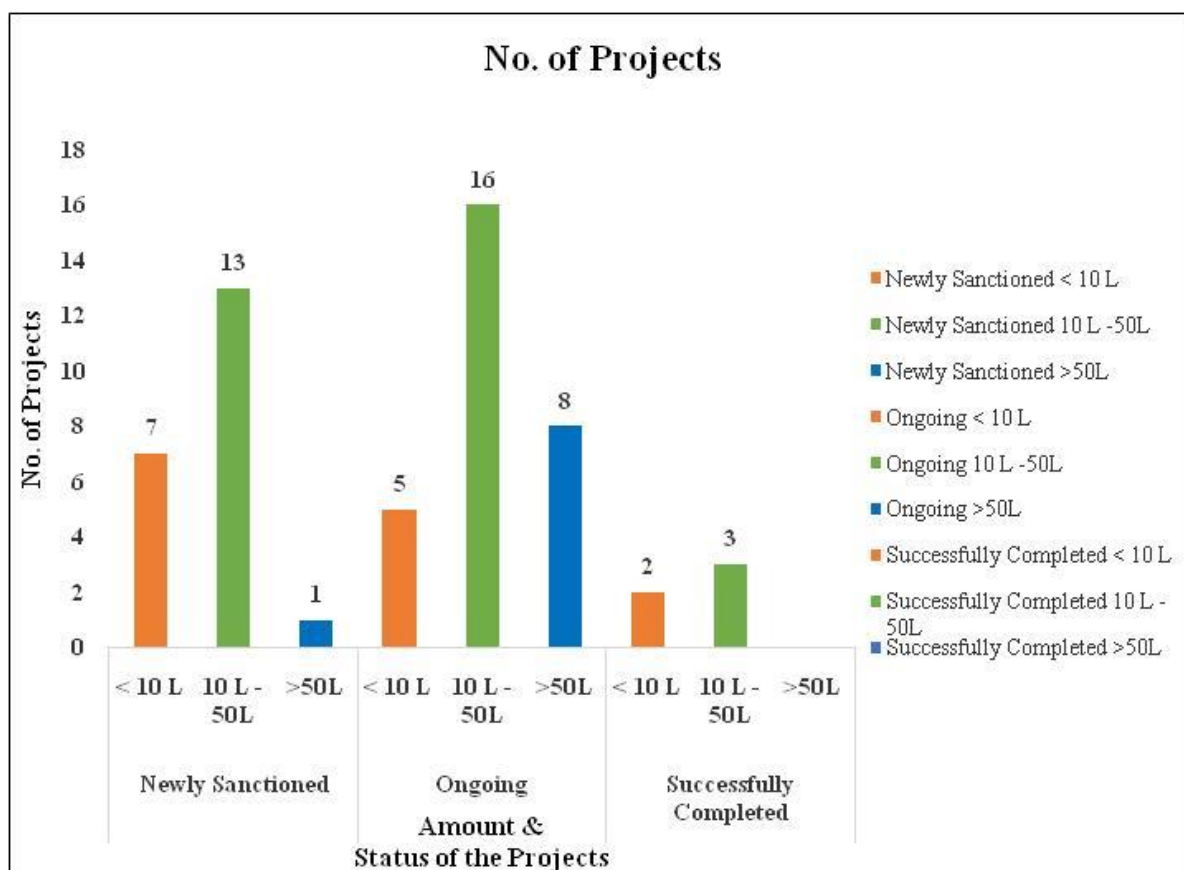
S. No	Department	Name of the Faculty	Title of the Chapter	Name of the Book
218.	Mechanical	Dr.G.Arunkumar	Design and Development of a Compliant Clutch Fork using Topology Optimization	New Approaches in Engineering Research
219.	Mechanical	Dr.G.Arunkumar	Automated Guided Vehicle for Physically Handicapped People – A Cost Effective Approach	Advanced Aspects of Engineering Research
220.	Physics	Dr.Helen Merina Albert	Magnetism, Laser fundamentals & opto-electronics	Physics for Engineers
221.	Physics	Dr. K. Vijai Anand	Recent Developments on Nanosized Metal-Incorporated Calcium Phosphate for the Treatment of Malignant Tumors	Handbook of Polymer and Ceramic Nanotechnology, Springer Nature Switzerland
222.	Physics	Dr. K. Vijai Anand	Alkaline Earth Stannate Nanomaterials as an Electron Transport Layer in Dye-Sensitized Solar Cells	Handbook of Polymer and Ceramic Nanotechnology, Springer Nature Switzerland
223.	Physics	Dr.S.Anandhi	Role of TiO ₂ in Highly Efficient Solar Cells	Springer Nature
224.	Physics	Dr.J.Anita Lett	Advanced Hybrid Conducting Polymers: Tissue Engineering Aspects	Advances in Hybrid Conducting Polymer Technology

Research Projects

7. RESEARCH PROJECTS

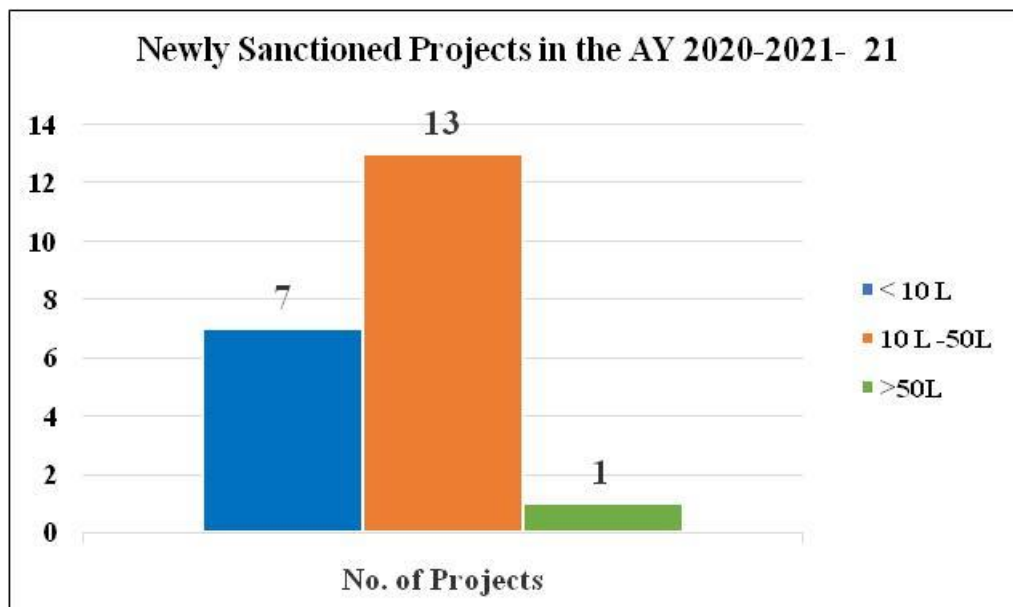
Sathyabama Institute of Science and Technology has wide-ranging, comprehensive and exciting research activities. Research is carried out under a wide variety of engineering, science and technology themes. Research projects are sponsored by various Ministries and Research Organizations like Ministry of Human Resource Development (MHRD), Ministry of Earth Sciences (MoES), Department of Science and Technology (DST), All India Council for Technical Education (AICTE), Department of Bio Technology (DBT), Indian Space Research Organization (ISRO), Defense Research and Development Organization (DRDO), Indian council for Medical Research (ICMR).

Funded Projects in the AY 2020-2021-55									
Project Status	Newly Sanctioned			Ongoing			Successfully Completed		
	< 10 L	10 L to 50L	>50L	< 10 L	10 L to 50L	>50L	< 10 L	10 L to 50L	>50L
No. of Projects	7	13	1	5	16	8	2	3	-



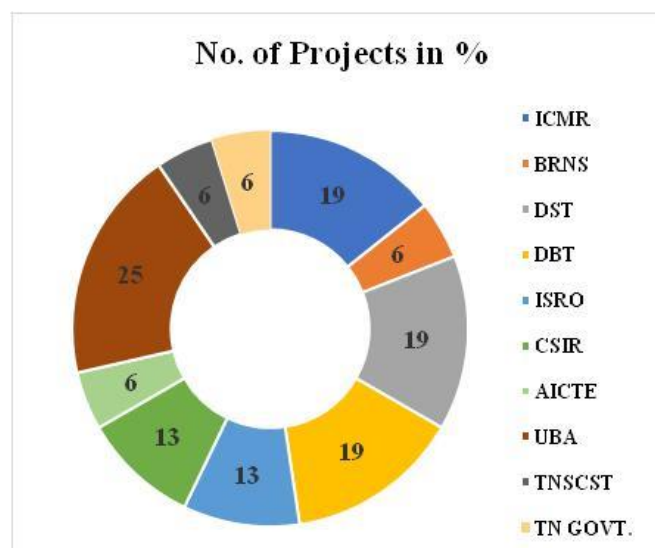
Newly Sanctioned Projects in the AY 2020-2021: 21

Project Amount	< 10 L	10 L -50L	>50L
No. of Projects	7	13	1



Newly Sanctioned Projects in the AY 2020-2021:21

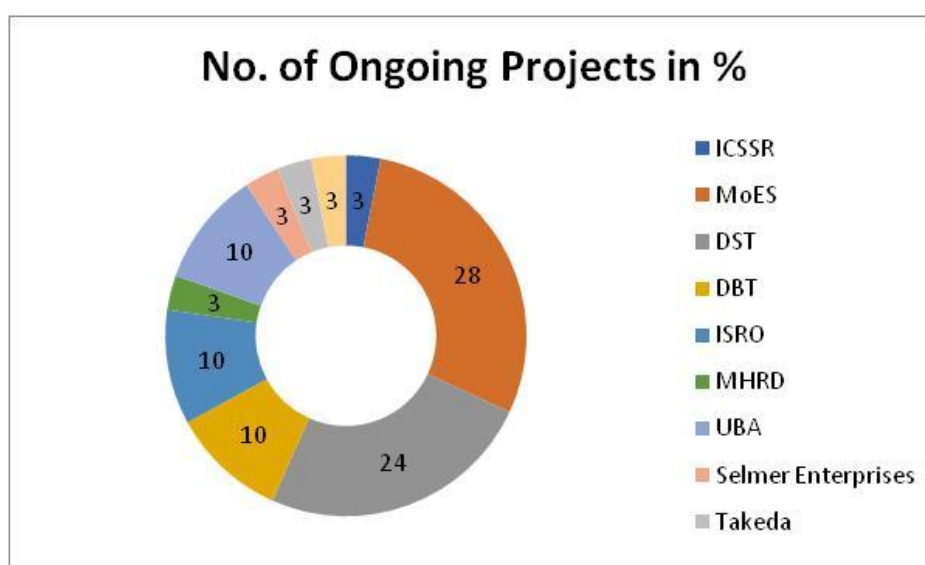
Funding agency	ICMR	DST	DBT	ISRO	CSIR	AICTE	BRNS	UBA	TN SCST	TN Govt
No. of Projects	3	3	3	2	2	1	1	4	1	1



Ongoing Sanctioned Projects in the AY 2020-2021: 29			
Project Amount	< 10 L	10 L -50L	>50L
No. of Projects	5	16	8



Ongoing Sanctioned Projects in the AY 2020-2021: 29										
Fundi ng agenc y	ICSS R	MoE S	DS T	DB T	ISR O	MHRD	UBA	Selmer Enterprises	Take da	AIC TE
No. of Projec ts	1	8	7	3	3	1	3	1	1	1



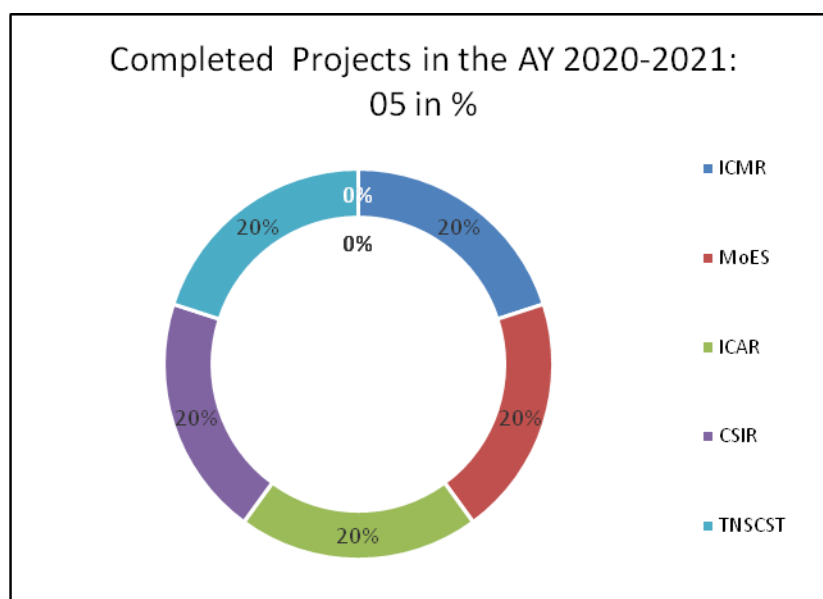
Completed Projects in the AY 2020-2021: 05

Project Amount	< 10 L	10 L -50L	>50L
No. of Projects	2	3	-



Completed Projects in the AY 2020-2021: 05

Funding agency	ICMR	MoES	ICAR	CSIR	TNSCST
No. of Projects	1	1	1	1	1



7.1 NEWLY SANCTIONED PROJECTS FOR THE AY 2020-2021

S.No	Name of the Investigators (PI/CO-PI)	Title of the project	Funding Agency	Duration of the project	Sanctioned Amount
1.	Dr.D.Inbakandan, Dr.L.Stalney Abraham, Dr. G. Dharani (NIOT) & Dr. N. Saravanane	Marine microbial product based eco friendly nanocomposites for marine antifouling application	DBT	2021 - 2024	60,50,480
2.	Dr.Jackson Durairaj	In-Vitro Functional Organ Model Development For Prostate Cancer & Its Molecular Characterization	DHR-ICMR	2020-2023	28,85,000
3.	Dr. S Johnson Retnaraj Samuel	Characterization of targeted small molecules for drug development, isolated from regenerating earthworms having potential wound healing and antibacterial properties	ICMR	2020-2023	2,27,000
4.	Dr.T. Sasipraba Dr.Swarnalatha	SPDP-Skill and Personality Development Programme Centre for SC/ST Students	AICTE	2020-2023	23,04,000
5.	Dr.D.Dinesh Kumar	Investigation on High Temperature Oxidation Behaviour of Super Alloys and Stainless Steel for Strategic Applications	ISRO-VSSC	2020-2023	16,94,000
6.	Dr.Preethi L K	Fabrication of Silicon-based nanocomposites for high energy density Li-ion anodes	ISRO-VSSC	2020-2023	20,02,000
7.	Dr.R.P.Rajesh	Development of venom based antiepileptic peptide targeting Na channels and deciphering the mode of action in Zebra fish model	ICMR	2020-2023	20,27,000
8.	Dr. S Johnson Retnaraj Samuel	Production, Characterization and scaling-up of earthworm coelomic fluid based serum-free cell culture medium for animal cell culture	DBT-BIRAC	2020-2022	27,00,000
9.	Dr.Adhavan Mr.Manikandan	A study on seasonal and spatial variation in micro plastics and their influence on plankton communities	CSIR	2021 - 2023	17,52,000

S.No	Name of the Investigators (PI/CO-PI)	Title of the project	Funding Agency	Duration of the project	Sanctioned Amount
10.	Dr.Jackson Durairaj Mr.Karthikeyan S.C	Analysis of atrazine induced pathological variation associated with alzheimers disease.	SERB, OVDF	2021-2023	17,98,000
11.	J.Aravind Kumar/D.Prabu/ S.Sathish	Organic biocides developed through green synthesis (neem leaves): A cost effective approach to enhance sustainable agri	UBA	2020-2021	1,00,000
12.	Dr. T. Krithiga	UBA-Organic biocides developed through green synthesis (neem leaves); A cost-effective approach to enhance sustainable agri	UBA	2020-2021	75,000
13.	Dr. S.S. Dawn	Eco Friendly soap from used cooking oil	MHRD-UBA	2020-2021	50,000
14.	Dr. S.S. Dawn	A Technology Development for conversion of food waste to organic pots – a replacement to sapling distributing polythene bags	MHRD-UBA	2020-2021	50,000
15.	Dr. M. Radhakrishnan	Exploring Marine actinobacteria for anti-infective and industrial products	DBT	2021 – 2024	48,66,160
16.	Dr.B.Sheela Rani (PI) and Mr. S.Kishore (CO-PI)	Establishment of DST-TIFAC (TAP Centre)	DST-TIFAC	2021-24	40,00,000
17.	Mr.S.Kishore(PI)	Scaleup Incubator-Scaleup TN(Capacity Building)	Govt. of Tamilnad	2021 - 2024	3,50,000
18.	Dr. V.Ganesh Kumar, Dr.D.Inbakandan Dr.N.Nazini Mr.AR Vimal Raj Dr.L.Stanley Abraham,	YASH-NCSTC-DST Sathyabama Health Communication programme	NCSTC-DST 30-9-2021	2021 - 2023	11,00,000

S.No	Name of the Investigators (PI/CO-PI)	Title of the project	Funding Agency	Duration of the project	Sanctioned Amount
19.	Dr. K. Govindaraju (PI)	Preparation of biogreen carbon dots as potent and tractable antimicrobial activity	TNSCST	(2021-2023)	1,90,000
20.	Dr.D.Inbakandan , Dr.L.Stalney Abraham & Dr. P.S. Murthy (BARC-Kalpakkam)	Development of antifouling technologies against green mussel fouling for process cooling water system	BRNS	2021 - 2024	33,97,100
21.	Dr.K.Nagamani (PI)	Towards developing near real time flash flood risk monitoring scheme over India	CSIR	2021 – 2024	21,25,000

7.2 ONGOING PROJECTS FOR THE AY 2020-2021

S.No	Name of the Staff (PI/CO-PI)	Title of the project	Funding Agency	Duration of the project	Sanctioned Amount
1.	Dr.A.Anderson, Dr.A.M. Kamalan Kirubakaran	Plasma sprayed Gd ₂ Zr ₂₀ 7/ YSZ Thermal Barriers coatings for aerospace Engine Compone	ISRO	2019-2021	19,61,000
2.	Dr. Amit Kumar	Can Seaweed Contribute towards Sustainable Future by playing a role in Climate Change Mitigation and Adaptation	DST SERB	2018-2021	29,00,000
3.	Dr. S. Thanga Suja	Studies on the interaction mechanism between resistant rice varieties and planthopper assemblages mediated through the phloem	DST SERB	2018-2021	38, 55,731
4.	Dr. M. Radhakrishnan (PI)	Diversity and distribution of cultured and uncultured forms of marine Actinobacteria and its role in Southern Ocean biogeochemistry	NCPO R-MoES	2019-2022	38,30,200
5.	DR. Krupakar Parthasarathy	Identification of Biomarkers for the development of rapid diagnosis of pulmonary tuberculosis by quantum dot bio-imaging	MHRD SPARC	2019-2022	48,77,610
6.	Dr.P.M. Velmurugan	Ocean Acidification and its Impact on Benthic Calcareous Organisms: Implications from Palk Strait, Bay of Bengal	SERB	2020-2022	37,25,860

S.No	Name of the Staff (PI/CO-PI)	Title of the project	Funding Agency	Duration of the project	Sanctioned Amount
7.	Dr.D. Inbakandan, Dr.L.Stalney Abraham, Dr.V.Ganesh Kumar, Dr. G. Dharani (NIOT) & Dr. GVM Gupta (CMLRE)	Surface modification nanotechnological approach for antifouling and anticorrosion applications	MoES-ESTC	2019 - 2022	61,49,693
8.	Dr.B.Sheelarani Dr.D.Inbakandan	PG Diploma on Skill Development in Fishery Products Technology	DBT-HRD	2018 - 2021	83,36,000
9.	Dr.B.Sheelarani Dr.D.Inbakandan	DST-FIST (Earth Sciences)	DST	2016 - 2021	28,00,000
10.	Dr. L. Stanley Abraham (PI), Dr. D. Inbakandan(Co-PI), Dr. K. Govindaraju(Co-PI)	Enhancement of marine microbial by-products for biomedical applications	MoES ESTC	2019-2022	53,14,333
11.	Dr.V.Ganesh Kumar (PI)	Biofunctionalization nanoparticles for anticancer applications using marine biosources	MOES	2019-2022	52,72,383
12.	Dr. K. Govindaraju (PI)	Studies on the anticancer potential of venom proteins from jellyfish species and their structural characterization	DBT	2018-2021	28,31,800
13.	Dr. K. Govindaraju (PI)	Isolation and identification of bioactive compounds from marine sponges for white spot syndrome virus (WSSV) control	MoES-ESTC	2019-2022	54,43,963
14.	Dr. M. Ravi (PI)	Characterization and DNA barcoding of polychaetes from the South East Coast, India	MoES	2019-2022	34,52,760
15.	Dr.T. Stalin Dhas (PI)	Improving in vivo reliability of resorbable Mg implant material using biopolymer and GO nanosheets	DST	2020-2023	18,30,000
16.	Dr.V.Vijaya Baskar	MODROB-Modernisation of Electronics Lab	AICTE	2020-2022	13,00,000

S.No	Name of the Staff (PI/CO-PI)	Title of the project	Funding Agency	Duration of the project	Sanctioned Amount
17.	Dr.V.Karthick (PI), Dr.T.Stalin Dhas & Dr.M.Ravi (Co-PIs)	Studies on the implications of engineered nanoparticles and bio- nanocomposites in aquatic animal health	MoES	2019-2022	75,25,368
18.	Dr.V.Karthick (PI)	Tumor specific peptide conjugated self-assembling dendrimer nanomicelles as innovative nanodrug candidates	Takeda Science Foundation,	2020	30,00,000 YEN
19.	Dr. K. Gobi Saravanan	Investigation on in situ High-Temperature Corrosion Behavior of Ni-base and Co-base super alloys & Refractory alloys for Strategic Applications	ISRO, Govt. of India	2020-2022	18,49,000
20.	Dr.L. Lakshmanan	Wireless Sensor Network and IOT Lab	DST-FIST	2020-2025	56,00,000
21.	Dr. M. Sumathi, Dr. P. Chitra	Detection of PCOS using AI Algorithms.	DBT	2 Yrs - 2021	21,99,432
22.	S.Poornapush pakala/ S.Barani, M.Subramoni am, T.Vijayashree	Development Of Non Destructive Digital Technology For Restoration And Archiving Of Tanjore Paintings And Murals	IMPRES-ICSSR	2020-2022	9,00,000
23.	M.Subramoni am/ S.Poornapush pakala	A Novel Non-Invasive Electronics for Early Diagnosis of Arthritis	BDTD - DST	2020-2023	24,62,196
24.	J Lilly Mercy and T. Sasipraba	Design and development of ANFIS controller	ISRO	2019-2021	19,34,000
25.	Dr. Mercy Paul Selvan / Dr. Viji Amutha Mary, Dr. Joshila Grace, Dr. Prince Mary	Managing websites through SEO strategies.	Selmer Enterprises Pvt Ltd.	2020-2022	1,00,000
26.	Dr S.Prayla Shyry	Empowerment of Rural Women through Home Made Soft Toys	UBA	2019-2020	1,00,000
27.	Dr D.Susitra	Erection of energy efficient stand alone solar powered street light	Unnat Bharat Abhyan	2020-2021	50,000

S.No	Name of the Staff (PI/CO-PI)	Title of the project	Funding Agency	Duration of the project	Sanctioned Amount
28.	Dr D.Susitra	Conversion Of Organic Waste into Electricity in Venkatapuram village	Unnat Bharat Abhyan	2020-2021	50,000
29.	Dr.B.Sheela Rani (Co-Ordinator) Dr.D.Inbakandan (PI) Dr.L.Stanley Abraham (PI) Dr.K.Goindaraju (PI) Dr.V.Ganesh Kumar (PI) Dr.V.Karthick (PI) Dr.T.StalinDhas (Co-PI)	Earth Science Technology Cell for Marine Biotechnological Studies	MoES	2020-2023	3,12,00,000

7.3 COMPLETED PROJECTS FOR THE AY 2020-2021

S.No	Name of the Staff (PI/CO-PI)	Title of the project	Funding Agency	Duration of the project	Sanctioned Amount in Rs.
1.	Dr.Jerrine Joseph (PI)	Distribution of culturable marine Micromonospora in the Tamil Nadu mangrove ecosystem	MOES	2019-2021	13,45,000
2.	Dr.D.Inbakandan , Ms.Subashini.B	Molecular evaluation of Chitosan Nanoparticle mediated curcumin delivery against pathogen induced oxidative stress in <i>Litopenaeus vannamei</i>	ICMR SRF	2018 - 2020	9,13,600
3.	Dr. K. Govindaraju (PI)	Evaluate impact of temperature anomalies likely under a climate change scenario on <i>Vibriosis</i> infection in <i>Litopenaeus vannamei</i> and to identify dietary interventions to mitigate the disease outbreaks	ICAR-NICRA	2016-2020	3950000
4.	Dr.V. Parameswaran (PI)	Isolation, Culture and Characterization of Fish Embryonic Stem Cells and Their Application in Transgenesis	CSIR-SRF	2019-2021	10,81,600
5.	Dr D.Susitra	Search and Rescue Unmanned Vehicle	TNSCST	2020-2021	7500

7.4 CONSULTANCY SERVICES OFFERED

Sathyabama Institute of Science and Technology offers consultancy services to industries.

S.No.	Name of the Organisations
1.	External Academic & Research organizations
2.	ISRO, Govt. of India
3.	GP Petroleum Ltd
4.	CSoft Technologies
5.	LANDTECH
6.	UV-Vis-NIR Spectrometer usage for various institutions
7.	BAE Systems India Services Pvt Ltd
8.	Ducom Instruments, Bangalore
9.	VB Ceramics, Chennai
10.	Gesco Remedies
11.	Flsmidth
12.	EXIDE, India
13.	Sun Engineering Technologies
14.	Intertek, Bangalore
15.	Renault Nissan Technology & Business Centre India Private Limited, Chennai
16.	Kemin Industries South Asia Pvt. Ltd, Chennai.
17.	Priya Food Products, Chennai
18.	Pfizer
19.	Johnson & Johnson, Chennai
20.	WABCO
21.	Nippon Tyres
22.	Central Leather Research Institute (CLRI), Chennai
23.	Madras Pharmaceutical
24.	TVS Motors
25.	CTARS health care 3D designing and printing company
26.	Umami Meats – Indo Singapore Consultancy

7.5 SATHYABAMA SEED GRANT FOR INNOVATIONS -2020-2021




S.NO	Name of the PI	Title of the project	Budget in INR
1.	Anderson A/Maria Anu/Nivin Joy/student-Mr. Vijay Pepakayala/Dr.A.Annam Renita	Multipurpose unmanned aerial vehicle disease control and agriculture drone	129500
2.	Vigneshwari S	Safety stick for elders	51000
3.	Dr.B.Bharathi, Dr.P.Asha	Smart Handgloves to Congregate vitals through social distancing	52200
4.	Dr. S. Prakash	MarOrn Shrimp Feeds: Commercial Feed for Marine Ornamental Shrimp Aquaculture	127500
5.	Dr. A.M. Kamalan Kirubaharan	Thermal Insulative Coatings for Roofs and steels	360000
6.	Dr.R.Padmapriya, Dr.S.Packialakshmi, Mr.J.Baalamurugan, Ms.S.T.Dharini,Mr.Melbin Robin	Pervious and Non-pervious Paver blocks by utilizing recycled aggregates and Fly Ash	62200
7.	Dr. T. S. SHYJU	Material Development	400000
8.	Sindu Divakaran, T.Sudhakar,Parthasarathy,Hemaprakash	Smart Digitized Pain Level Detector	17000
9.	Kaja Bantha Navas R	Design and development of coconut tree harvesting drone	50000
10.	R. Ramkumar	Time Efficient Modular Prefab Shelter (TEMPS)	312500
11.	Dr. K Chennakesavulu	Ozonizer for disinfection and removal of pesticides in vegetables, fruits, fish and mutton	239800
12.	Dr.Kirubashankar Parthasarathy	Anti-viral discovery – capsules inhaler	250000
13.	Y.Swarnalatha and Mr.Immanuel Rajkumar	UV Sanitization box for covid-19	38000
14.	Dr.S.Kumaran	Economically feasible feed development from the biodegradable by-products of Shrimp waste for the culturing fishes-	1,75,000
15.	T.N.Saiteja, Suryarajkumar, S.G.Selvendiran	The cozy case	14,000

7.6 SATHYABAMA – TBI NSTEDB-DST Startup Grant (2020-2021)

S. No	Topic	Name	Department	Amount
1.	Fabrication of EMI Shielding Materials	Bh. Jashwanth Varma 2.D.R. Sai Krishna Sanjay 3.Ajay Shivsharan Reddy (Final Yr, Aut Suraj Ramesh Davanapalli Faculty Mentor- Dr. Bhupesh Raja	Automobile Engineering	Rs. 75,000 /-
2.	Smart wearable band for Covid 19 Patients	Mr. Kamal Sharma, III Year IT Mr. Pepakayala Vijay Kumar, IV Year Aero Mr. Nithin, III year, CSE Faculty Mentors Dr. A. Sivasangari Dr.P.Ajitha	Information Technology	Rs. 30,000 /-
3.	Seaweed with herbal Face mask with eye shield; 2. Organic enriched natural wet wipes	Ms. Vinu and Ms. Amreen Nisa, Research Fellow Faculty Mentor Dr. Govindaraju	Centre for Ocean Research	Rs 50,000/-
4.	Effective and portable Defense products	Mohamed Armoon Shaliq A.Karan Tejesawar K.J Vinayaga Moorthy (III Yr Physics) Faculty Mentor Dr. C. Ramesh Kumar	Physics	Rs. 20,000 /-
5.	Brown seaweed based Immune Booster for Shrimp – Shrimp Booster	Mr. Sakthinarendharan Mrs. Mirnalini. Research Fellow Faculty Mentors Dr.V. Parameswaran Dr. M. Ravi	Centre for Ocean Research	Rs. 50, 000 /-
6.	PG Hostel	Mr. Balanagu Yashwanth, IV ECE Mr. Ayan – IV ECE Mr. Dhruv – II Year Faculty Mentor- Dr. Sethuraman,	Electronics & Communication Engg	Rs. 20,000 /-
7.	Inventorization of E-Waste Management - The Global Scenario	Yashwi Kaushik, Rahul Raj, III IT Faculty Mentors Dr.L.Mary Gladence, Dr.V.Maria Anu, Ms. E. Brumancia	Information Technology	Rs. 20,000/-

S. No	Topic	Name	Department	Amount
8.	Yes EM Yes Air DeToxifier	Mr. Abdul Rameez, Mr. Daniel Robinson and Mr. Arvind Anilkumar Mr. Arvind Faculty Mentors Dr. L. Stanley Abraham, Dr. Joshua Amarnath	Centre for Ocean Research & Department of Chemical Engineering	Rs. 90,000/-
9.	Koshell	Shrimathy S/Melbin Robin (Final yr, civil) Faculty mentor Dr. S Packialakshmi	Civil Engineering	Rs.26,000/-

7.7 MINIMUM VIABLE PRODUCT (MVP's) BUILT BY TBI STARTUP GRANT (2020-2021)

S. No	Innovation Name	Inventors Name	Ref. Picture
1.	Maatram – Water Bottle	B. Ram Kumar, Dr. Nithya & Dr. Maya School of Mgmt	
2.	Agro Drone – Advanced Way Of Farming	N. Siba Prasad Choudhury, Dr. M. Godwin Premi School of Electrical & Electronics	
3.	Hospital-Connect	Saurav Jaiswal Dr.A.Sivasangari School of Computing	

S.No	Innovation Name	Inventors Name	Ref. Picture
4.	Epilepsy Seizur Prediction System a Wearable device	Dr.A.Sivasangari, IT Mr. Suvam Bhowal,IT Department of Information Technology	
5.	Sensor For Institutional Transportation	Ikben Ghosh Dr. Vijaya Baskar School of Electrical & Electronics	
6.	Geopolymer Foam Based Muffler	S.Krishna Raj Sundar Kasyap Dr. V. K. Bupesh Raja School of Mechanical	
7.	Geopolymer Thermal Shielding For Automobiles	M.DEEPAK SAIRAM V.HARIPRASATH Dr. V. K. Bupesh Raja School of Mechanical	
8.	Spion's	Ms. Jenifer Selvarani A Ms. Chamarthy Sai Sahithya Dr. Antony V Samrot School of Bio & Chemical Engg	

7.8 FUNDED/SPONSORED PROGRAMMES ORGANISED 2020-2021

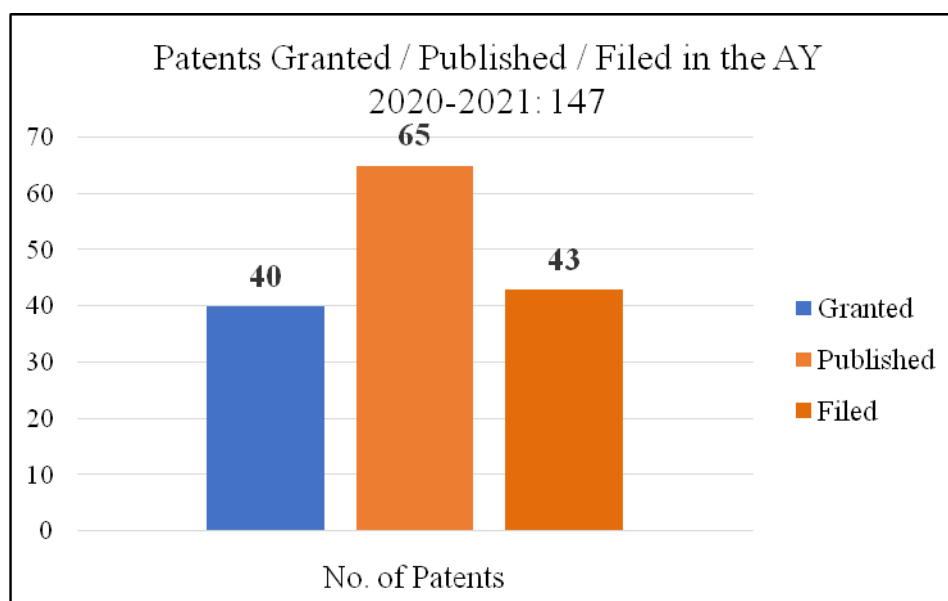
S.No	Name of the Faculty	Name of the Programme	Sponsoring Organisation	Amount of Fund
1.	Dr.M.Munjula	INSA - VSP	INSA	90000
2.	Dr.R.Subhashini, Dr.A.Sivasangari	Grant for organising conference	AICTE	1,67,700
3.	Dr. G Nagarajan / Dr. Sathyabam, Dr.Prem Jacob, Dr. Pravin, Dr. Usha Nandhini	Five days FDP Program - 2021	AICTE-ATL Academy	93,000
4.	Dr.V.Ganesh Kumar	National Science Day Seminar	Tamil Nadu State Council for Science and Technology	15,000
5.	Dr. R. M. Joany	Solar Water Pumping System Training Programme (VARUNMITRA)	MSME, TDC(PPDC) MEERUT & NISE Govt. of India	25000
6.	Dr.B.Prabhu Dass Batvari, Dr.K.Nagamani (Co-PI)	Online Training Program on "Basic Principles of Disaster Management"	National Institute of Disaster Management	1,50,000
7.	Dr.G.Sundari	Quantum Computing	AICTE	93,000
8.	Dr.S.Prakash	Online Short Term Training (Sttp) On Digital Twin Technology	AICTE	2,79,000
9.	DR.G.Sundari	Futuristic Applications And Research Opportunities Of Nanoelectronics In Bioscience	AICTE	3,36,667
10.	Dr.S.Prakash	Atal Online Fdp 3d Printing And Additive Manufacturing For Industrial And Bio Medical Applications	ATAL AICTE	Rs 93,000
11.	Dr.K.Nagamani (PI) and Dr.S.Packialakshmi (Co-PI)	Application of Geospatial Science & technology in Meteorology and Ocean Science	DST-NGP	3,00,000/-

Patents

8. PATENTS FOR THE YEAR 2020-2021

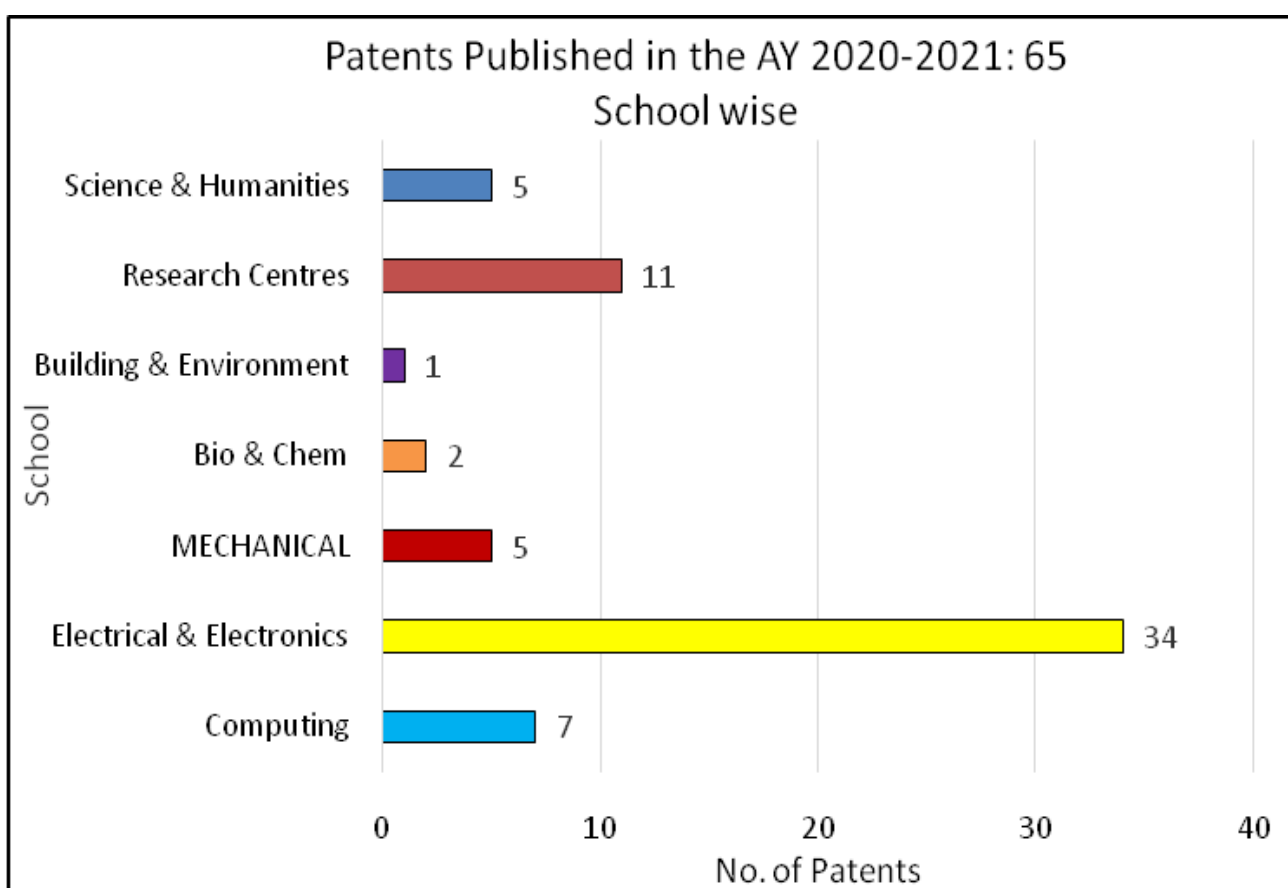
IP policy is an important tool for encouraging generation, protection, and commercialization of Intellectual Properties in Universities and Research Institutions. Patent protection gives an incentive to inventors for more inventions, leading to greater skills. Intellectual Property Rights (IPR) act as shield to inventions. The Sathyabama IP division spreads awareness on the importance of filing the patent application for an invention. Several workshops and faculty development programs were conducted to support the same. The research efforts of the faculty members are successfully translated into patented inventions. A total of 40 patents were granted, 64 patents were published and 43 patents were filed during this period.

Patents Granted / Published / Filed in the AY 2020-2021: 148			
Status	Granted	Published	Filed
No. of Patents	40	65	43



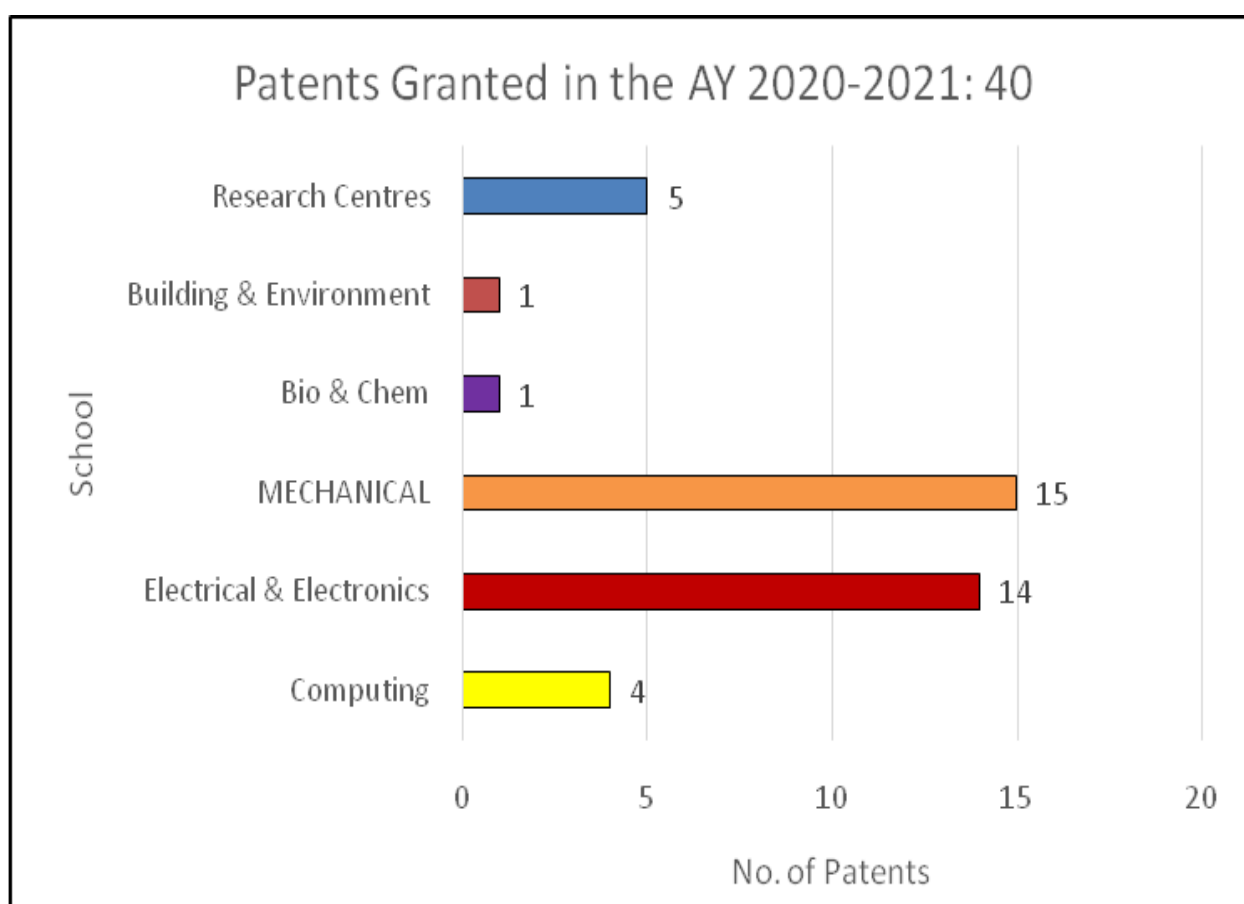
Patents Published in the AY 2020-2021: 65

School	Computing	Electrical & Electronics	MECH	Bio & Chem	Building & Environment	Research Centres	Science & Humanities
No. of Patents	7	34	5	2	1	11	5



Patents Granted in the AY 2020-2021: 40

School	Computing	Electrical & Electronics	MECH	Bio & Chem	Building & Environment	Research Centres
No. of Patents	4	14	15	1	1	5



8.1 PATENTS GRANTED FOR THE YEAR 2020-2021

S.No.	Name of the inventors	Title of the invention	Patent/Applica tion Number
1.	Dr.A.Anderson	Rotating Disc for Seed Sowing	341699
2.	Dr.A.Anderson	Safety Net Testing Machine	341698
3.	Mr. Kaja Bandha Nawas	Coconut Tree Climbing and Harvesting Robot	328205-001
4.	Mr. Kaja Bandha Nawas	Manned Aerial Vehicle	327438-001
5.	Mr.S.Venkatesh	Manned underwater Aircraft	327654-001
6.	Mr.S.Venkatesh	Manned Amphibious Aircraft	
7.	Dr. Jerrine Joseph	A method of Preparing Transdermal wound healing patch from Herbal extracts	Australian Innovation Patent No2021103381
8.	Dr L Stanley Abraham, Dr. D. Inbakandan, Dr. T. Sasipraba, Dr. B. Sheela Rani and Col. Dr. Jeppiaar	Kappaphycus alvarezii sap extractor	353906
9.	L Stanley Abraham, Marcus, Dinesh and A. Joshua Amarnath	Exit Gas Converter	340336
10.	Dr. Valarmathi, Dr. Kaja Bantha Nawas, L Stanley Abraham,	Agriculture machine	341694
11.	Marykutty Abraham	Iot Based Touch Detecting Hand Glove For Post Pandemic Safety	IN-380908/2020102232
12.	Annam Renita,A,Anderson.A,Kaja Bandha Nawas	Safety Net Testing Machine	341698-001
13.	Dr.S.Packialakshmi	Concrete Ring Segment for Coastal Erosion	334632-001
14.	Dr.G.Nagarajan	Kiosk With Seater and Automatic Height Adjusting Thermal Screen	331430-001
15.	Dr.P. Asha, Dr.Bharathi.B, Dr. B. Ankayarkanni	Digitized virtals congregating hand gloves (CO-PI)	330019-001
16.	Dr. G. Nagarajan, Dr.T.PREM JACOB, Dr. Pravin	Kiosk With Seater and Automatic Height Adjusting Thermal Screen (CO-PI)	331427-001
17.	Poonguzhali S, A. Sivasangari, Immanuel Rajkumar, P. Ajitha	Framework For Ensuring Data Security in Iot Smart Meters and Gateways Interaction of Neighbourhood Area Networks	2020101790
18.	S.Poornapushpakala	Method for fabricating Fractal Antenna for biomedical applications	2021101727
19.	S.Barani	Method For Fabricating Fractal Antenna for Biomedical Application	2021101727

S.No.	Name of the inventors	Title of the invention	Patent/Applica tion Number
20.	T Ravi, M Sugadev	Capacitor Bank Based Agriculture Sprayer	378578
21.	P CHITRA	Method of fabricating Fractal Antenna for Biomedical applications	2021101727,
22.	G JEGAN	Method For Fabricating Fractal Antenna For Bio Medical Application	2021101727
23.	I.Rexiline Sheeba	Method for Fabricating Fractal antenna for bio medical application	2021101727
24.	T Ravi, M Sugadev	Capacitor Bank Based Agriculture Sprayer	378578
25.	Dr.S.Nirmalraj	Desktop Touch Free Automatic Hand Sanitizer Dispenser	332959-001
26.	Dr. S. Sundarsingh Jabaseelan	Tabletop Touch Free Automatic Hand Sanitizer Dispenser	332958-001
27.	Dr.S.Jayaprakash	Height Adjustable Portable TV Stand	327096-001
28.	Dr.S.Jayaprakash	Height Adjustable TV Wall Mount Bracket	327096-002
29.	Dr. M. L. Bharathi	Mouse Holder	335981-001
30.	Dr.V.Senthil Nayagam	Head Gear and Incisive Bike Frame For Exile Of Civilians	366022
31.	A., Sivasangari; P., Ajitha; R.M, Gomathi; S., Poonguzhali and Rajkumar, Immanuel	Framework For Ensuring Data Security in Iot Smart Meters and Gateways Interaction Of Neighbourhood Area Networks	Patent number: 2020101790
32.	Dr.G.Arunkumar and Mr.Maria Antony Jeswin Treasho	Aerial Vehicle for Emergency Services	340541/ 340541-001
33.	Dr.G.Arunkumar, J Ajay and Daniel	Design of flexible Drilling Machine	327181 / 327181-001
34.	Dr.G.Arunkumar and Mr.Maria Antony Jeswin Treasho	Auto Inflatory cushions for mobile phone safely	328036 / 328036 -001
35.	J Lilly Mercy, Daniel Parmar, Kaja Bantha Nawas, T. Sasipraba, D. Alex Anand	Waste Bin	334414-01
36.	M.Sangeetha	Go-Kart	327989-001, 9.3.2020
37.	M.Sangeetha	Agriculture Machine	341694-001, 31.1.2021
38.	S.Prakash,Kaja	Coconut Tree Climbing and Harvesting Robot	328205-001
39.	S.Prakash	Portable Foot Operable Sanitizer Dispenser	334501-001
40.	S.Prakash	Robotic Arm for Cutting	341694-001

8.2 PATENTS PUBLISHED FOR THE YEAR 2020 - 2021

S.No.	Name of the inventors	Title of the invention	Patent/Application Number
1.	Dr.Boomadevi, Mr. G. Madhan Kumar	An Aircraft Wing: Surrogated flow passage by non-winglet arrangement	202041003252
2.	Mrs. B. Subashni, Dr. R. Thirugnanasambandam	Aquarium water, PH and Temperature meter with display	342144-001
3.	Dr. R. Thirugnanasambandam, Dr. B. Sheela Rani	Aquarium aerator monitoring device	325341-001
4.	Dr. R. Thirugnanasambandam, Dr. B. Sheela Rani, Mr. Jayakumar	Portable aquarium aerator tracking robot	325340-001
5.	K.Nagamani	IoT based Efficient Water Resources Forecasting, Monitoring and Management System	202041049792
6.	Marykutty Abraham	Automatic Plastic Injection Moulding Machine using the Fluid power Pneumatic mechanism	202141001304
7.	Dawn S S,Kaja Bantha Navas Nishant Gaurav, Kumar Manu, Basisth Kumar, N.Nirmala Caroline Joshi	Analysis and Development of Bioplastic from Algal biomass for composites	201641037330
8.	S S .Dawn, Alok Ranjan, Ankit Kumar,Akash Dutta,S. Spoornapushpakala, S.Barani,N Nirmala	Compact sensor system for train compartment Washbasin water recovery	201641037331
9.	Dawn S.S,K Dayanandhan ,Harish Kumar,Jeeru Nitish Reddy,Aman Chauhan, Anshuman Sar,Rashmi Kumari,Caroline Joshi	Automatic Smart Segregator	201641037332
10.	D Prabu, S.Sathish, D.Venkadesan, J.Aravind Kumar	Method Of Cadmium Removal Using Nanopartilces Impegnated with Palm Kernel Shell	202041044814A
11.	D Prabu, S.Sathish, D.Venkadesan, J.Aravind Kumar, Kiruthiga	Amalgamation Of Nanochitosan and Adsorbent Application Process for The Removal of Reactive Dye	202041048435A

S.No.	Name of the inventors	Title of the invention	Patent/Application Number
12.	Dr. T. Krithiga	Amalgamation Of Nano Chitosan and Adsorbent Application Process For The Removal Of Reactive Dye	202041048435 A
13.	K. Chennakesavulu	Polymer Nanocomposite and Implementations Thereof	201911054049
14.	Dr.S.Packialakshmi	IoT based Efficient Water Resources Forecasting, Monitoring and Management Sys	202041049792
15.	Dr. T. Sasipraba, Dr. G. Murugadoss and Dr. P. Kuppusami	Perovskite material and method for fabricating thereof	202141023052 A
16.	Dr. K. Gobi Saravanan	Development of Ceramic Coatings on Dental Abutments for Better Corrosion Resistance	201841022285
17.	V.Ulagamuthalvi	Diabetes Detection and Estimation From Glucose Levels By Feature Detection Using Machine Learning Algorithm	202041023885
18.	V.Ulagamuthalvi	Automatic COVID-19 screening system without human intervention	R20204017468
19.	Dr.A.Christy	Completion of chemical reaction in remote location using Data Analytics built on internet of things platform	202141003335
20.	Dr.Shobana Devi.A	Method And Device for Predicting Psychotic Disorders	201941013151
21.	G Jegan	Effective Management Analysis of Signal Coverage And Novel Design Of Triangular Patch Antenna For Quasi Elliptic Band Pass Response	202041020290
22.	L.Magthelin Therase et.al	Method for fabricating fractal Antenna for Bio medical Applications	2021101727
23.	E.Anna Devi	Vehicular Edge Computing Using a Smart Embedded System for Intelligent Transportation	202041033273 A
24.	R. M. Joany	Nano-Blue Pigment from Waste Iron Rod-Wealth from Waste	201641032335
25.	G Jegan	Effective Management Analysis of Signal Coverage and Novel Design of Triangular Patch Antenna for Quasi Elliptic Band Pass Response	202041020290

S.No.	Name of the inventors	Title of the invention	Patent/Application Number
26.	A.Sahaya Anselin Nisha, R.Narmadha	Miniaturization of Hybrid Coupler Connected Fractal Microstrip Antenna for Multiple Resonance	201841016903
27.	S.Poornapushpakala	Compact Sensor System For Train Compartment Wash Basin Water Recovery	201641037331 A
28.	R Immanuel Rajkumar	Non Invasive-Anytime Healthcare Machine (Athm)	202041006408 A
29.	R Immanuel Rajkumar	Design Of System For Identifying Crash Landed Flight Vehicle	202041006409 A
30.	Mr. Immanuel Rajkumar, Dr. P. Grace Kanmani Prince	Non Invasive Anytime Health care machine	202041006408
31.	R.Narmadha	Miniaturization of hybrid coupler connected fractal micro strip antenna for multiple resonance	201841016903
32.	R. Narmadha	Distance Based Power line communication	201941021041
33.	G.Jegan, L. Yogesh, T. Ravi, M. Sugadev, S Vimal KUMAR, P. Surya Vignesh, P.Kavi Priya , I. Rexline Sheeba	Robust Vehicle Crash Detection Sos System Using Lower Earth Orbit Satellite Communication	202141044159 A
34.	M.R.Ebenezhar Jebarani	Iot Based Advanced Irrigation System	201841016507 A
35.	P Chitra	Smart Gloves For Visually Impaired People	201841016511 A
36.	P. Kavipriya	Sensing The Garbage Level Using Ultrasonics And Monitoring Its Odor Gases Using Iot	201841016741 A
37.	P.Kavipriya, M.R.Ebenezar Jebarani, S.Lakshmi, K.Srilatha, P.Chitra, M.Sumathi	Iot Based Automated Control System For Poultry Farm	201841016501 A
38.	P.Kavipriya, M.R.Ebenezar Jebarani, S.Lakshmi, K.Srilatha, P.Chitra, M.Sumathi	Wearable Smart Devices For The Safety Of Women And Children	201841016502 A
39.	P.Kavipriya, M.R.Ebenezar Jebarani, S.Lakshmi, K.Srilatha, P.Chitra, M.Sumathi	Iot Based Advanced Irrigation System	201841016507 A

S.No.	Name of the inventors	Title of the invention	Patent/Application Number
40.	P.Kavipriya, M.R.Ebenezar Jebarani, S.Lakshmi, K.Srilatha, P.Chitra, M.Sumathi	Smart Gloves For Visually Impaired People	201841016511 A
41.	P.Kavipriya, M.R.Ebenezar Jebarani, S.Lakshmi, K.Srilatha, P.Chitra, M.Sumathi	Design And Implementation Of Thermo Electric Generator For Pacemakers	201841016734 A
42.	P.Kavipriya, M.R.Ebenezar Jebarani, S.Lakshmi, K.Srilatha, P.Chitra, M.Sumathi	Sensing The Garbage Level Using Ultrasonics And Monitoring Its Odor Gases	201841016741 A
43.	G Jegan	Effective Management Analysis Of Signal Coverage And Novel Design Of Triangular Patch Antenna For Quasi Elliptic Band Pass Response	202041020290
44.	G Jegan	Emergency Notification Systems For Use With Footwear For User's Safety	202041026841
45.	G Jegan	Consumer Id Bisected Compound Access Method For A Smart Grid System	202041032691
46.	T.Vino	Emergency Notification Systems For Use With Footwear For User's Safety	202041026841
47.	Dr. S. Karthikeyan	Intelligent toilets In train	83095
48.	G.Jegan, L. Yogesh, T. Ravi, M. Sugadev, S Vimal KUMAR, P. Surya Vignesh, P.Kavi Priya , I. Rexline Sheeba	Robust Vehicle Crash Detection Sos System Using Lower Earth Orbit Satellite Communication	202141044159 A
49.	Dr.KalaiLakshmi, Mr.M.Sugadev	Prepaid Customer Loyalty Card For Retailers	201641039015
50.	G.Jegan, L. Yogesh, T. RAVI, M. Sugadev, S Vimal KUMAR, P. Surya Vignesh, P.Kavi Priya , I. Rexline Sheeba	Robust Vehicle Crash Detection Sos System Using Lower Earth Orbit Satellite Communication	202141044159 A
51.	G Jegan	Effective Management Analysis Of Signal Coverage And Novel Design Of Triangular Patch Antenna For Quasi Elliptic Band Pass Response	202041020290
52.	M. Kavitha	Mobility Scooter	201741039061
53.	Dr.S.Nirmalraj	Automatic Head Light Dim/Bright Controller	201841022304

S.No.	Name of the inventors	Title of the invention	Patent/Application Number
54.	Dr.J. Femila Roselin	Generatio Of Electrical Power By Using Sea Wave Energy	201841017288
55.	Y.Bevish Jinila, S.Prayla Shyry	Smart Segregator Alert Trash Bin	202141008152
56.	Dr.J.Jabez	Smart Ai-Powered Medical Platform With Virtual Nursing Assistants	Application No.202141047796 A
57.	Dr.L.Mary Gladence, Dr.V.Maria Anu, Ms.E.Brumancia	IOT enabled smart wearable handy sanitizer dispenser	No.202041028753 A
58.	D.S.Jayalakshmi	Design of Novel Electrostatic spray machine for killing locust	202041028546
59.	Dr. M. Sundareswari & Dr. M. Manjula	Iridium Based Alloy Design for Aerospace Application	201811040540
60.	Dr. C. Rameshkumar	AI controlled Autonomous community Micro grid with renewable energy systems	202141033073
61.	Dr.B.Kanimozhi	Planetary gear steering tricycle	202041049404
62.	S.Sivasaravanam	Machine Learning Based Battery Management System for Optimized EV Performance	202141017715
63.	S.Prakash, G.Madankumar	Surrogated Flow Passage By Non Winglet Arrangement	202041003252
64.	S.Prakash, Kaja,Anderson	Development Of Noise Control Muffler For Four Wheeled Vehicles	202041022907
65.	Dr. Marykutty Abraham and Dr. P. Mohana	Automatic Plastic Injection Moulding Machine using the Fluid power Pneumatic mechanism	202141001304

8.3 PATENTS FILED FOR THE YEAR 2020 – 2021

S.No	Name of the inventors	Title of the invention	Patent/Applica tion Number
1.	Ramesh kumar V	A method to prepare biocompatible gold nanoparticles	2020103940
2.	Dr.S.Sudha, K.Revathi Yadav, Dr.Bvanilatha Muthiah, Dr.L.Inbathamizh, Alka Ashok, Swetha, R.Pavithra, Girija Vasudevan, Dr.S.Ushanandhini	“Method Of Biofertilizer Production For Enhancement Of Growth, Nitrogen Fixation, Nutrient Uptake And Yield In Leguminous And Non-Leguminous Plants”	2021103486
3.	Dr. Jerrine Joseph ., Dr. T. Rajasekar., Dr. Wilson A Runi Ms. Mary Shamy., Dr. S.Kumaran	Preparation of biofortified seaweed choccos chips as dietary supplement for combating Malnutrition	AMCZ-2110385391
4.	Kumaran Subramanian, Mani Panangal, Alagappan Kumarappan, Deivasigamani Balaraman, Wilson aruni	Method For Promoting Fish Feed Growth Performance And Immune 5 Response In Commercial Aquaculture	2021106645
5.	Kumaran Subramanian, Wilson aruni, Sampath Renuga Pugazhvendan, Saradha devi	Method For Preventing Or Treating Infection Caused By Bacteriophage Cocktails In Shrimp Aquaculture System	2021106651
6.	Dr. Jerrine Joseph and Dr. C.Pravda	A method of preparing ethno herbal farm produce sanitizer	Australian Innovation Patent No2021103471
7.	Dr. Jerrine Joseph, Mary Shamy Dr. T. Rajasekar Dr. S.Kumaran	Steptovate SIST- Bioformulated Biocontrol Cum growth promoter	2021102316
8.	Dr. Jerrine Joseph, Mary Shamy Dr. T. Rajasekar	Marine Algal Based UV shield Cream	20241006980
9.	Dr. V.K. Bupesh Raja, Dr. B.Sheela Rani 4. Dr. V Ganesh Kumar, Dr. R Padmapriya, Mr. J Baalamurugan, Mr. Annipeddi Venkata Ramana Sundar Kasyap, Mr.S.Krishna Raj, Mr.M. Deepak Sairam, Mr.Akash Mishra, Mr.Ritam Das	Geopolymer filter based novel muffler for emission control in internal combustion engines	Application number: 333876-001 ; CBR no: 17846; FER: 05.11.2020
10.	D.Vinu, K.Govindaraju, S. Amrin Nisa and B.Sheela Rani	Automatic Thermostat Controller	349151-001
11.	D.Vinu, K.Govindaraju, L.Stanley Abraham and B.Sheela Rani	Thermostat Controlled Culture Tank	346421-001

S.No	Name of the inventors	Title of the invention	Patent/Applica tion Number
12.	D.Vinu, K.Govindaraju, and B.Sheela Rani	A method for development of nanoscale nutrients based shrimp functional feed formulation	202141009577
13.	Sathyabama Institute of Science and Technology, Dr. V.K. Bupesh Raja, Dr. B.Sheela Rani 4. Dr. V Ganesh Kumar, Dr. R Padmapriya, Mr. J Baalamurugan, Mr. Annipeddi Venkata Ramana Sundar Kasyap, Mr.S.Krishna Raj, Mr.M. Deepak Sairam, Mr.Akash Mishra, Mr.Ritam Das	Geopolymer filter based novel muffler for emission control in internal combustion engines	Application number: 333876-001 ; CBR no: 17846; FER: 05.11.2020
14.	Dr.S.Packialakshmi	Floating Rafter for Wetland Treatment	340153-001
15.	Dr.R.Padmapriya	Geopolymer Filter Based Novel Muffler For Emission Control In Internal Combustion Engines	333876-001
16.	Suresh Udaiyappan, P. Kuppusami, Kamalan Kirubaharan, Sasipraba T, sasikumar, dhanalakshmi, solairaju, priya, solomon, balamurugan	stable wear resistant coating on low carbon steel alloy and method thereof	202011047353
17.	Dr.S.Murugan	Type 2 diabetes detection and estimation from glucose levels by feature detection using Machine Learning Algorithm	202041023885
18.	Dr. T. Judgi	Profile Based Digitization of Medical Records in Cloud	2021100009
19.	Dr. Christy	Estimation of completion of Chemical reaction in remote locations using data analytics built on internet of things platform	202141003335
20.	Dr.Bharathi.B	Brainwave Controlled Assistive Device for quadriplegic patients(PI)	20174105529
21.	Ms.M.S.Roobini, Ms.Deepa	Optimized Convolutional Neural Network For Coloured Image Quality Testing Of The Multi Modal Images And Pre-Trained Set Of Multi Hued Images(Co-Pi)	202041034932

S.No.	Name of the inventors	Title of the invention	Patent/Applica tion Number
22.	F.V.Jayasudha	Flexible, Non-Invasive Software Microstrip Antenna For Tumour Size Detection In Breast Model	2021101727
23.	M.Sumathi	Sensor For Breast/Lung Cancer Detection	347951-001
24.	Mr. Immanuel Rajkumar, Dr. P. Grace Kanmani Prince	Smart wearable Epileptic Seizure prediction and detection	202141005002
25.	Dr.S. Karthikeyan Dr. E. Logashanmugam, Mr. Jonnala Praneeth Reddy, Mr. Kadiri Vamsi Krishna, Mr. R. Kaja Bantha Navas, Mr. Maria Antony Jeshwin Treasho, Dr. T. Ravi, Dr. T. Sasipraba	Water Extraction From Air	329725-001
26.	Dr.D.Godwin Immanuel	A Novel Approach For Communication Among Deaf Dumb and Blind People Using Electronic Hand Glove	201841020984
27.	Mrs.M.Kavitha	Electrolysis washing machine	202041006243
28.	Dr.Sundar Singh Jebaseelan	Light Intensity Regulator	329907-001
29.	P. Sivagami	Harvesting Electrical Energy From Sound Energy Using Luo Converter For Lighting And Charging	202141000218
30.	Mrs. P. Abirami	Spiking Neural Network (Snn) Controlled Upfc For Power Quality Improvement In A Distribution Network	202141000216
31.	V.Senthil Nayagam	A Dual wireless power transmission system using DC – DC converter for EV battery charging application	202141000215
32.	M.Kavitha	Soil Testing Using Visible - Infrared Radiation Generation And Detection	202141000213
33.	V.Geetha	Virtual design of Induction Cooking System Using Electromagnetic Simulation	202141000217
34.	Dr.V.Meenakshi	Modelling of an efficient solar module using perovskite	202141001124

S.No	Name of the inventors	Title of the invention	Patent/Applica tion Number
35.	Dr. S. Johnson Retnaraj Samuel, Dr. S. Jackson Durairaj, S.C. Karthikeyan, Dr. Y. Beryl Vedha, V. Saravanakumar, R. Kamarajan, S. Ravichandran, R. Melinda Grace	Earthworm Ceolomic fluid as a Potential blocking agent in Western Blotting Experiments	202041055479
36.	V.K.Bupesh Raja, B.Sheela Rani, V.Ganesh Kumar, R.Padmapriya, J.Baalamurugan, Anipeddi Venkata Ramana Sundar Kasyap, S.Krishna Raj, Deepak Sairam, Akash Mishra, Ritam Das	Geopolymer Filter Based Novel Muffler for Emission Control in Internal Combustion Engines	Design Patent (Indian), Application Number: 333876-001, Cbr Number: 17846,
37.	Dr.G.Arunkumar and Dinesh	Solar Empowered Agricultural Robot	326866-001
38.	Dr. Sivakumar Vijayaraghavalu, Dr. Raman Lakshmisundaram, Dr. R.Thirumalaikumaran	Surgical Scalpel Handle”	336399-001
39.	Dr. Sivakumar Vijayaraghavalu, Dr. R. Thirumalaikumaran, Dr. Panchanathan Manokar, Dr. Arunan Murali	“Automated Emergency Ventilator For Covid-19 Patients ”	337025-001
40.	Dr. N.Shanmuganathan, Dr. R. Thirumalaikumaran, Dr. Sivakumar Vijayaraghavalu	Dental Implant Box	337388-001
41.	Dr. Sivakumar Vijayaraghavalu, Dr. P. Shanmugapandiyan, Dr. R. Thirumalaikumaran, Dr. Munish Kumar	Serological Pipette	341565-001
42.	Dr.Sheela Rani, Dr.Bupesh Raja,Dr.Ganesh Kumar,Dr. Padamapriya, Mr. Balamurugan,Mr. Annipeddi Venkata Ramana Sundar Kasyap, Mr. Deepak Sairam, Mr. Akash Mishra, Mr. Krishna Raj, Mr. Ritam Das	Cellulose- Geopolymer Sandwich thermal shield for automobiles	333876-001
43.	M.Sangeetha	Energy Effective Versatile Moving Device for Agricultural Operations- Product	201941002197 A

Start ups

9. STARTUPS

Sathyabama has an excellent innovation eco system, to encourage and promote the development of innovative products and startups. Internal events such as Hackathons, Techno Summits, Project Expos, Entrepreneurship programs, Startup Summit, IPR awareness programmes are conducted to promote entrepreneurship, technology transfer and business startups for young entrepreneurs to take the plunge into startup life. The initiatives of Sathyabama Technology Business Incubator focus on supporting and nurturing the entrepreneurial drive in the students and enhance the skills of aspiring entrepreneurs. The Institution provides seed fund for Innovative ideas, Product Development, Startups to students and faculty.

S.No	Name of the Start up	Name of the founder	Year of establishment	CIN Number	DIN Number	Nature of start up
1	Mirai Research Solutions	M.Arun Govind	2020	NA	NA	Manufacturing
2	Seventhdev (Website Development)	Siva Sai Reddy	2020	–	–	Budding up
3	HariMusiq (You tube Channelist)	Harihara n	2020	–	–	Budding up
4	Digital Business Card	Kamal Sharma	2020	–	–	Budding up
5	Space Biotech Pvt. Ltd	K. Govindar aju	2021	U24239TN2021PTC1 44902.	CHES625 42E	Biotech products
6	Bogar Biologicals Private Limited	M. Ravi	2020	U24290TN2021PTC1 44924	9248439	Manufacturing
7	Phyzoo Aqua Products Private Limited	C. Kumar	2020	U15400TN2021PTC1 40586	9021610	Manufacturing



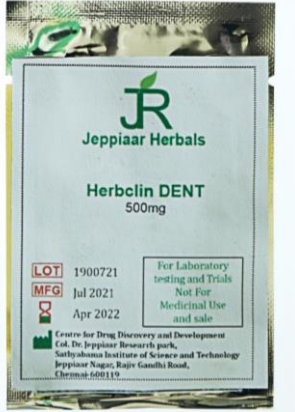

9.1 INCUBATES OF SATHYABAMA TBI DURING 2020-2021



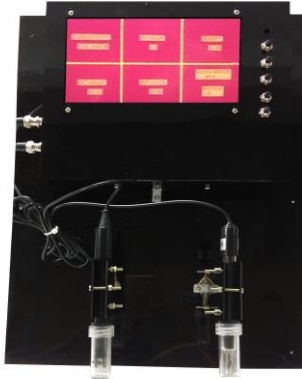

S.No.	Name of the Company	Product
1	Phyzoo Aqua products Private Limited	It is involved in the production of animal feed based on insect proteins
2	Thamizhi Eco-Pro Pvt Ltd	It produces Portable, lightweight, Natural cooling and unbreakable Clay water bottles
3	Bogar Biologicals Pvt Ltd	It is involved in manufacturing and trading all kinds of multidisciplinary and scientific chemical and bio products.
4	Build Geeks Pvt Ltd	A Research oriented Company involved in development of variety of bio related products
5	Space Biosciences Pvt. Ltd.	It develops Sanitizing kit (Seaweed enriched herbal extract Hand Sanitizer, Wet Wipes and Face mask)
6	Koshell Cutlery Pvt Ltd	To carry on the business of recycling of coconut shells & allied coconut components into eco-friendly cutlery products.
7	Dot 2 Globe Solutions Pvt Ltd	Dot2Globe' is a Software as a Service (SaaS) Product development Organization from Chennai with a small foot-print in Bangalore.
8	CZ Smart Mobility	CZ Smart Mobility is a start up company with a vision into Sustainable Transportation.
9	Highavenue Creative Labs Pvt Ltd	A content creation tool (iOS and Android) which helps consumers, bloggers, and companies to create fun and attractive stories/videos, using our Augmented Reality animations, for their Social Media accounts.

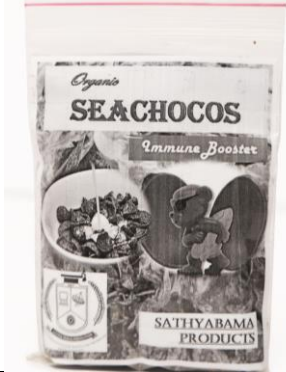



9.2 PRODUCT UNDER COMMERCIALIZATION & LICENSING



- Ozonator with Circulation System with outer tank
- Aloe vera based Herbal hand sanitizer
- Bacterial Pigmented Extract
- HAND SANITIZER
- Hydroponic Nutrition-Soil Less Growth
- Jeppiaar Herbal Antiseptic Wipes
- Jeppiaar Herbals Herbclin Dent
- JPR's Sea Weed Chacos
- Milk Health Monitoring System
- STEPTOVATE
- Marine ornamental shrimp feed
- Nano Enriched Aqua Feed with Advanced Nutrition
- Multivitamin Fortified Chaco Chips
- Nano enriched aqua feed
- Multipurpose disinfection box
- NoMute
- Smart digitized pain level detector
- Pervious and Non pervious paver blocks
- A safety stick for elders

S.No	Name of the Product	Name of the Inventor	Product
1.	Ozanator with Circulation system with outer tank	Dr. K. Chennakesavulu Associate Professor, Department of Chemistry	
2.	Aloevera based Herbal hand sanitizer	Dr.Y.Swarnaltha Department of Biotechnology	
3.	JPR's Sea Weed Chacos	Dr..Rajasekar, Dr.Jerrine Joseph, Dr.Mary Sahay and Dr.Kumaran	
4.	Bacterial Pigmented Extract	Dr.Jerrine Joseph, Scientist E, CDDD	

S.No	Name of the Product	Name of the Inventor	Product
5.	Hand Sanitizer	Dr.Jerrine Joseph, Scientist E, CDDD	
6.	Hydroponic Nutrition- Soil Less Growth	Dr. S. Kumaran <i>Assistant Professor/Scientist-C, CDDD</i>	
7.	Jeppiaar Herbal Antiseptic Wipes	Dr.Jerrine Joseph, Scientist E, CDDD	
8.	Jeppiaar Herbals Herbclin Dent	Dr.Jerrine Joseph, Scientist E, CDDD	

S.No	Name of the Product	Name of the Inventor	Product
9.	Multipurpose disinfection box	Dr. Y. Swarnalatha Department of Biotechnology Dr. Immanuel Rajkumar Department of electronics and Communication Engineering	
10.	Marine ornamental shrimp feed	S. PRAKASH, Ph.D Scientist - C Centre for Climate Change Studies	
11.	Milk Health Monitoring System	Dr Sivasankari, Department of Information Technology	
12.	Steptovate	Mr. Manigundan, Jerrine Joseph, M. Radhakrishnan , V. Gopikrishnan	

S.No	Name of the Product	Name of the Inventor	Product
13.	Multivitamin Fortified Chaco Chips	Dr..Rajasekar, Dr.Jerrine Joseph, Dr.Mary Sahay and Dr.Kumaran	
14.	Nano Enriched Aqua Feed with Advanced Nutrition	Dr. S. Kumaran Assistant Professor/ Scientist-C CDDD	
15.	NoMute	Dr N Srinivasan, Department of Computer Science	
16.	Smart digitized pain level detector	Dr. Sindu Divakaran, T.Sudhakar Department of Biomedical Engineering	

S.No	Name of the Product	Name of the Inventor	Product
17.	Pervious and Non pervious paver blocks	Dr.Padmapriya Dr.S.Packialakshmi Department of Civil Engineering	
18.	A safety stick for elders	Dr. S.Vigneshwari Associate Professor and Head, Department of CS	

Research Collaborations

10. RESEARCH COLLABORATIONS

10.1 INTERNATIONAL RESEARCH COLLABORATIONS FOR THE YEAR 2020 – 2021

S. No	Scientist/ Faculty Name	Name of the laboratory/ Institute	Year of the Collaboration	Outcome of the Collaboration
1.	Dr.V.K. Bupesh Raja	Materials Division, Department of Mechanical Engineering, National University of Singapore, Singapore	2020	Publication(Mathew Alphonse, V.K.Bupesh Raja*, Manoj Gupta, and K. Logesh, Optimization of coated friction drilling tool for a FML composite, Materials and Manufacturing Processes, 2020. Taylor and Francis. Pp. 1-10, 2020. https://doi.org/10.1080/10426914.2020.1832684 . Published online on 19th October 2020. (WoS. IF: 4.616))
2.	Dr.S. Kumaran	School of Agriculture and Biology, Shanghai Jiao Tong University, Shanghai, 200240, PR China	2021	Publication
3.	Dr.S. Kumaran	Faculty of Science, Chulalongkorn University, Thailand	2021	Issue Editors
4.	Dr.S. Kumaran	Ege University, Turkey	2021	Publication
5.	Dr. Amit Kumar	University of Antwerp, Belgium	2021	Combined publications
6.	Dr.K. Nagamani	The University of Kitakyushu, Japan	2020	International Conference
7.	Marykutty Abraham	University of Houston, Houston, Texas 77204, United States	2021	Joint Publication
8.	Dr. Shyju	University of Concepcion, Chile	2021	One Paper in JVST A – Published

S. No	Scientist/ Faculty Name	Name of the laboratory/ Institute	Year of the Collaboration	Outcome of the Collaboration
9.	Dr G Murugadoss	Ural Federal University, Yekaterinburg 620002, Russia	2020-2021	Research Papers
10.	Dr G Murugadoss	Kind Saud University, Riyadh 11451, Saudi Arabia	2020-2021	Research Papers
11.	Dr G Murugadoss	Dongguk University, Biomedical Campus, Gyeonggi-do 10326, South Korea	2020-2021	Research Papers
12.	Dr G Murugadoss	University of Concepcion, Concepcion, Chile	2020-2021	2020-2021
13.	Dr G Murugadoss	Alagappa University, Karaikudi 630003, India	2020-2021	Research Papers
14.	Brijitta J	Jülich Centre for Neutron Science (JCNS) at Heinz Maier-Leibnitz Zentrum (MLZ), Forschungszentrum Jülich GmbH, Germany	2020-2022	Manuscript under preparation
15.	Brijitta J, Sanjeevi Prasath	Division of Physical Chemistry, Lund University, Sweden	2020-2022	https://pubs.acs.org/doi/10.1021/acs.langmuir.1c00288
16.	Brijitta J	Institut Laue–Langevin, Grenoble, France	2019-2022	Manuscript under preparation
17.	Brijitta J	University of Florence, Italy	2021	Work in Progress
18.	Brijitta J	Università degli Studi di Bari Aldo Moro, Italy	2021	Proposal submitted towards Indo-Italy Network Call
19.	Dr. M. Manjula	National University of Science and Technology “MISiS”, Moscow, Russia	2019	Research work published in International journal
20.	Scientist/Raj kumar	IISc Bangalore	2020	Research paper
21.	Dr. J R Deepak	Wollo University, Ethiopia	2021	Semester Abroad Programme
22.	Dr. J R Deepak	Wollo University, Ethiopia	2021	Online Faculty Exchange Program for four weeks on AutoCAD Design Software Training for Automotive Engineering Post Graduate students

10.2 NATIONAL RESEARCH COLLABORATIONS FOR THE YEAR 2020 – 2021

S. No	Scientist/ Faculty Name	Name of the laboratory/ Institute	Year of the Collaboration	Outcome of the Collaboration
1.	Sheetal Amraotkar - Faculty Advisor for the Design and competition	Chitrakoota School and Solar Decathlon collaboration for research and design of Net zero energy and Net zero water Project for Construction worker Housing for the School Mr.Kavin Kumar - Industry Partner for the Project	2021	Design once accepted, will be executed on Site, Masters Sustainable Architecture & Building Management students get to execute a live project and learn. Recognition if Solar Decathlon competition is won, results shall be declared in March 2022
2.	Ar. Sukirtha Suresh	Mr.Kavin Kumar, Director - Engineering Project Management Consultancy and Research (EPMCR) Private Limited	2020-2021	As part of MOU entered on 8th Aug 2019, Provided Industrial Training for 2 students, Facilitated placement of 1 student post graduation. Carried out Joint research activities in the fields of Work Safety Plan, Quality Management for Precast Concrete Technology & Safety & Risk Assessment by way of Dissertation projects. Actively engaged as Industry Partner for the Solar Decathlon competition Project
3.	Dr.T.Rajasekar	ICMR_JALMA	2020	Publication
4.	Dr.S. Kumaran	Pandit Deendayal Petroleum University, Gandhinagar 382 007,	2020 - 2021	Publication
5.	Dr. Jerirne Joseph	National Institute for Research in TB	2020	Publication
6.	Dr. S. Thanga Suja	Indian Institute of Rice Research	2020	Project submitted and experiment ongoing
7.	Dr. S. Thanga Suja	Sun Agrobiotech research Centre	2020	Project submitted
8.	Dr. S. Thanga Suja	School of Agriculture, Karunya Institute of Technology and Science	2020	Article submitted
9.	Dr. S. Thanga Suja	National institute of Plant Genome Research	2021	Computational work in progress

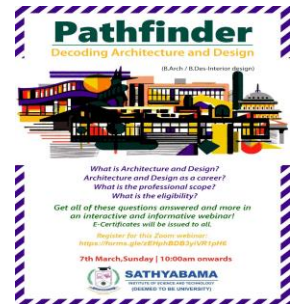
S. No	Scientist/ Faculty Name	Name of the laboratory/ Institute	Year of the Collaboration	Outcome of the Collaboration
10.	Dr. S. Prakash	Zoological Survey of India	2021	Combined publications
11.	Dr. S. Prakash	ICAR-NBFGR	2021	Combined publications
12.	Centre for laboratory Animal Technology and Research	Govt. Siddha Medical College	2020	Animal Projects
13.	Centre for laboratory Animal Technology and Research	SRM Institute of Science and Technology	2020	Animal Projects
14.	J. Baalamurugan	RSD, SQRMG, IGCAR	2020	Publication
15.	Dr. S. Supriya	CLRI	2020 - 2021	M.Sc Project
16.	Dr. K. Gobi Saravanan	CIPET, bhubaneswar	2021	Publications, Journal of Materials Chemistry B
17.	Brijitta J, Sanjeevi Prasath, Saravanan C	Indira Gandhi Centre for Atomic Research, Kalpakkam	2020	https://www.sciencedirect.com/science/article/abs/pii/S2468023020307926
18.	Brijitta J	University of Hyderabad	2021	Manuscript Communicated
19.	Brijitta J, Sanjeevi Prasath	Indian Institute of Technology Madras	2019-2021	https://www.sciencedirect.com/science/article/abs/pii/S0167577X20305590#! , https://pubs.acs.org/doi/abs/10.1021/acs.langmuir.1c00288
20.	Brijitta J, Sanjeevi Prasath, Saravanan C	Polymer Research Centre, Indian Institute of Science Education and Research Kolkata	2018-2020	https://www.sciencedirect.com/science/article/abs/pii/S0167577X20305590#!
21.	D.S.Jayalakshmi	Loyola Institute of S&T	2020-2021	Publication
22.	D.S.Jayalakshmi	SSN college	2020-2021	Publication
23.	Scientist/Govind Kumar/ Dr.B.kanimozhi	Tata Technologies ltd jamshedpur/ Research and development	2020	Research paper

Research Outreach

11. RESEARCH OUTREACH

11.1 Outreach/Awareness Programmes

School of Building and Environment, Department of Architecture has organized a Path Finder programme on 'Decoding Architecture and Design' -Architecture Outreach Programme which was conducted for the school students to give them an idea about Architecture.



School of Building and Environment, Department of Architecture has organized a Path Finder programme on 'Decoding Architecture and Design' -Architecture Outreach Programme which was conducted for the school students to give them an idea about Architecture.

Centre for Climate Change Studies has organized a programme on Farmer extension services to create awareness among farmers on March 2020




Centre for Climate Change Studies had organized classroom interactive series During January – March 2021

SATHYABAMA
Institute of Science and Technology
Centre for Climate Change Studies

Join us on
"International Earth day"

Guest Speaker



Date and Time:
22nd April 2021
11 AM to 12 PM

Forest Range Officer
Gulf of Mannar Biosphere Reserve, Tamil Nadu
Recipient of IUCN-International Ranger Award, 2021

**Topic: Conservation of Marine Ecosystems:
A Case Study from Gulf of Mannar and Palk Bay**

Register here to receive ZOOM meeting details: <https://forms.gle/GUjHFn3ES4fY5XA>

Patrons
Dr. Mariazeena Johnson, Chancellor
Dr. Marie Johnson, President
Ms. Maria Bernadette Johnson, Vice President
Dr. T. Sasipraba, Vice Chancellor

Organizers
Dr. D. Adhavan
Dr. S. Prakash
Dr. Amit Kumar

Centre for Climate Change Studies had organized Earth day 2021 lecture as a part of creating awareness on protecting our environment.

Centre for Climate Change Studies Had organized Seagrass awareness month during March 2021.



Centre for laboratory Animal Technology and Research had organized a research workshop on Animal Experiment, Lab Animal handling and Research Workshop from June 2020 – April 2021.

Centre for Waste Management jointly with Department of Visual Communications had organized "E-No-Waste" an On-line Contest for School children to create awareness on E waste management.



SATHYABAMA
INSTITUTE OF SCIENCE & TECHNOLOGY

DEPARTMENT OF VISUAL COMMUNICATION
CENTRE FOR WASTE MANAGEMENT & VANS CHEMISTRY

E-NO WASTE
-An Online Contest

Rules:

1. Participants should fill out the registration form to participate in the contest.
2. Age Limit - This contest is open for 12 years and above.
3. All the one product / solution should reach us on or before 30/07/2020.
4. After completing your product take a picture and send us on a 4x6 inch.
5. The top ten will be invited to participate in the online event planned in the mid of July.
6. Entries should be handled carefully and all precautionary measures to be taken while making the craft.
7. Creative concepts submitted for contest should be original and not include any infringement of third party intellectual rights.
8. The event organizers will respect the intellectual rights of all.
9. The jury decision is final.
10. Organizers reserve all rights related to the contest.
11. Participants will get an E-Certificate.
12. The prize winners will be awarded during the National Seminar and Opportunities in Entrepreneurship and Strategic HR Management 2020-2021 to be held on 03rd July 2020.

Participants can create an innovative product out of E-waste or find an alternative solution for E-waste management.

ORGANIZING COMMITTEE
Dr. S.S. Davari, M.Tech, PhD (Former Director)

ADVISOR
Ms. Mariazeena Muthy (Former & Incoming Director, Vans Chemistry)

CONVENERS
Mr. B. Balaji, PhD, HOD, Asst. Professor (Mr. A.S. Vinod Raj, PhD) Asst. Professor

COORDINATORS
Mr. M. Arun Goundar (Sales & Waste Management) Mr. A. Sarathkumar (Centre for Waste Management)

CASH PRIZE will be awarded for the Top 5 Contestants

DO NOT REWARD LANDFILLS

FOR MORE INFORMATION CONTACT:
+91 99522 77624
+91 99522 66692

FOR SATHYABAMA INFORMATION: +91 99480 82662 / 99481 66607 | www.sathyabama.ac.in

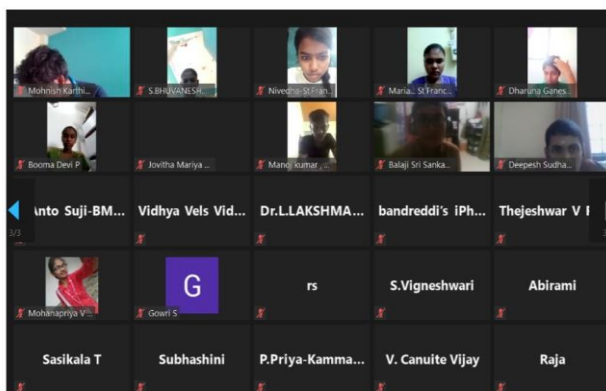


Centre for Waste Management, Centre, Centre for Nanoscience and Nanotechnology &, Department to Electronics and Communication Engineering had organized An Awareness Programme on E-Waste Collection and Management during March 2021.



The Department of Computer Science organized an online programme to teach Govt School students Asthinapuram on 'Introduction to IoT'

The Department of Computer Science organized a lecture series for Higher Secondary School students on various aspects of Computing.



The Department of Computer Science organized a Quiz Contest Brainiac for the School students.

**NME-ICT,MOE, GOVT. OF INDIA
SUPPORTED INITIATIVES**

12 NME-ICT, MOE, GOVT. OF INDIA SUPPORTED INITIATIVES

12.1 REMOTE CENTRE IN ASSOCIATION WITH NMEICT & IIT BOMBAY

A Remote Centre was established in Sathyabama Institute of Science and Technology with REMOTE CENTRE ID 1576. We have offered 120 seat capacity auditorium and hostel accommodation facility for the participants. There are 6 workshops conducted/ participated during 2020-2021 and our RCC participated in IIT BOMBAY to participate in one Co-coordinator's ARDUINO PROGRAMMING workshop on 18th January, 2020.

The workshops conducted at our Remote Centre are:

- Linux workshop for coordinators
- Linux workshop for teachers
- R programming workshop for coordinators
- R programming workshop for teachers
- Arduino workshop for teachers

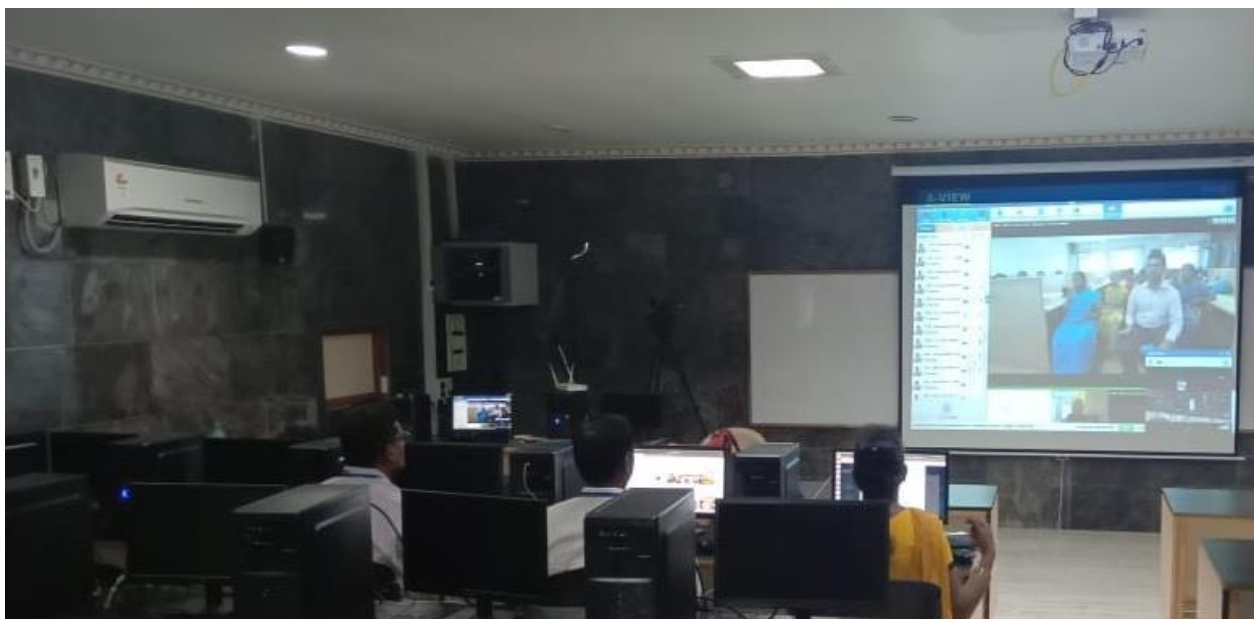
The outcomes of these workshops are:

Faculty from School of Computing and School of EEE got acquainted with the knowledge of programming and hardware modules from online sessions from Prof.Kannan Mougalya and Team from IIT Bombay. Faculty got trained in Arduino Programming with hands-on training in online by IIT Bombay and offline sessions handled by our Remote Centre Coordinator Faculty from School of EEE, School of Computing and School of Mechanical Engineering conducted various IIT BOMBAY SPOKEN TUTORIALS workshops in associating

NMEICT-IIT
Bombay.



FACULTY ATTENDING ARDUINO PROGRAMMING WORKSHOP – HANDS ON TRAINING



FACULTY ATTENDING VIRTUAL SESSIONS FROM IIT BOMBAY

12.2 SPOKEN TUTORIAL PROJECT FUNDED BY NATIONAL MISSION EDUCATION THROUGH ICT, MHRD, GOVT. OF INDIA

Sathyabama Institute of Science and Technology has Associated with Knowledge Partner Spoken Tutorial Program, of IIT Bombay. Our University is now an Academic Center for initiating Spoken Tutorial Training Nationwide for the second year. This program is a part of the National Mission on Education through ICT, MHRD, Govt. of India, to spread IT Literacy all over India. Our faculty can use the Free and Open Source Software (FOSS) for learning purposes.

National Level FDPs can be conducted to faculty of other institutions through this program.

12.3 VIRTUAL LAB IN ASSOCIATION WITH NIT, SURATKAL, NME-ICT

A Virtual Lab is established in association with NITK Surathkal. Virtual Labs provide remote access to labs in various disciplines of Science and Engineering Virtual Labs can be productively used by the faculty members to engage the students in a remote virtual experiential learning mode. Virtual Labs enable the students to learn at their own pace and enthuse them to conduct experiments. Virtual Labs also provides a complete learning management system where the students can avail various tools for learning, including additional web resources, video lectures, animated demonstration, and self-evaluation.

International Activities

13 INTERNATIONALISATION ACTIVITIES

13.1 INTERNATIONAL FELLOWSHIPS

Dr. Manikannan from the Centre for Drug Discovery has received ICMR DHR Fellowship and visited University of Tennessee for a period of one year.



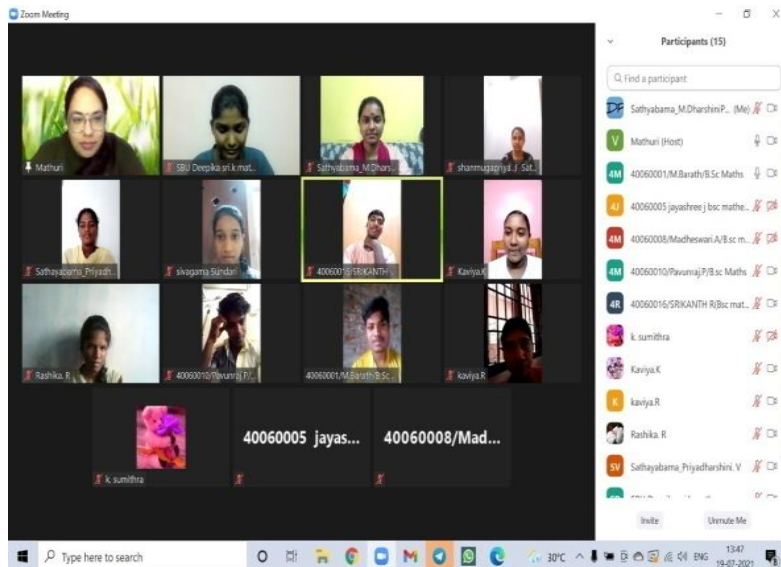
Dr Thanga Suja from the Centre for Climate Change Studies has received the INSA Visiting Scientist Programme fellowship and visited National Institute of Plant for a period of three months.

Dr. MADAN KUMAR of Centre for Nanoscience and Nanotechnology is undergoing Senior Post Doctoral Fellow at University of Nebraska, Omaha, USA since June 2019.



13.2 OUTBOUND STUDENT EXCHANGE

Student from the Department of Computer Science have participated in Summer School Programme at the Asia University, Taiwan from 3rd August 2021 - 21st August 2021.

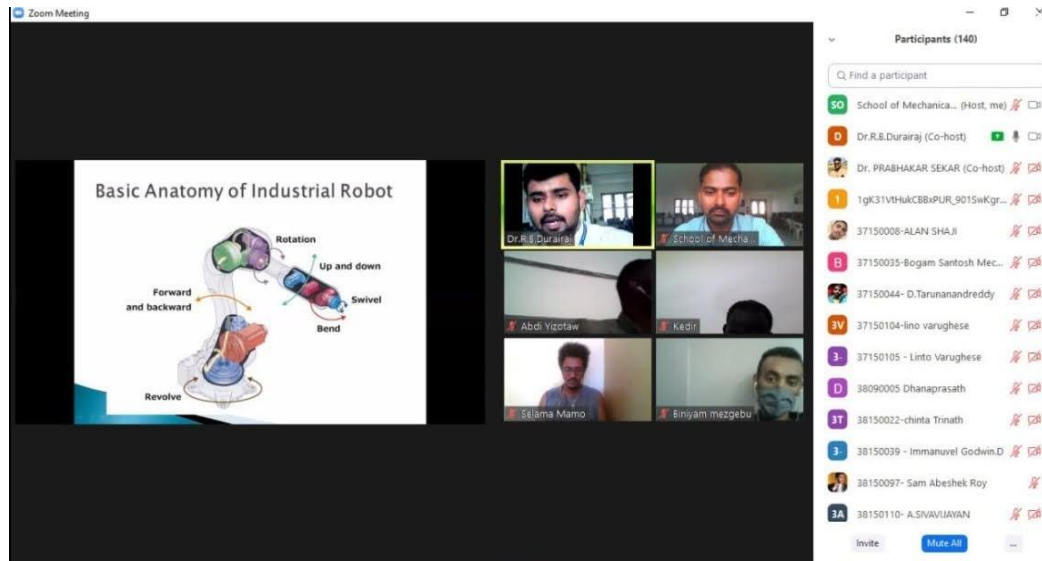


Students from the Department of Mathematics have participated in Virtual Semester Abroad Programme at the MARA University, Malaysia from February 2021 to May 2021.

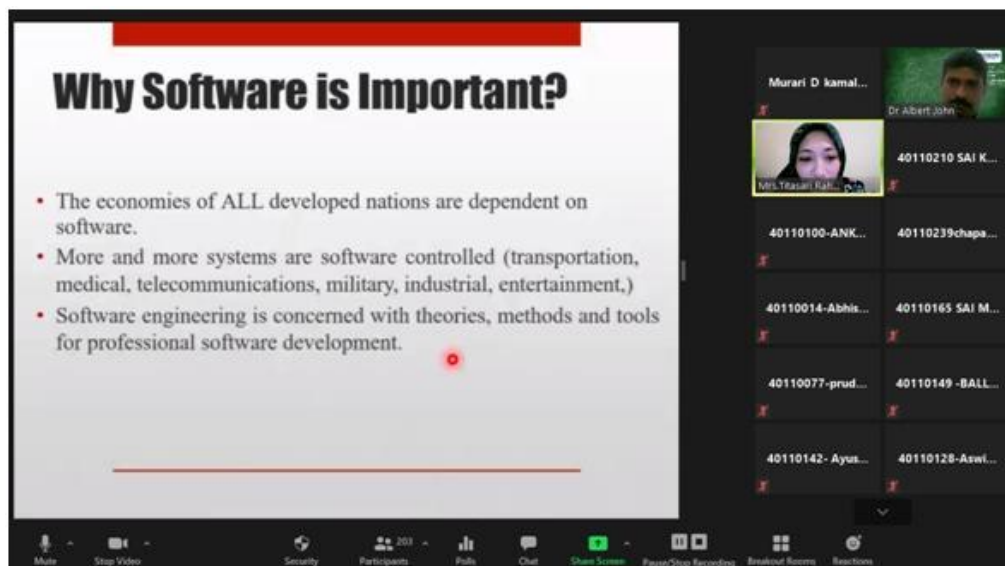
Students from the School of Management Studies have participated in Virtual Semester Abroad Programme at the UNIS, Brazil from February 2021 to May 2021.



13.3 INBOUND STUDENT EXCHANGE



Students from the Wollo University, Ethiopia have participated in Virtual Semester Abroad Programme in the Department of Mechanical Engineering, Sathyabama Institute of Science and Technology from February 2021 to May 2021.



Students from the Daffodil International University, Bangladesh have participated in Virtual Semester Abroad Programme in the Department of Computer Science Engineering, Sathyabama Institute of Science and Technology from February 2021 to May 2021.

13.4 JOINT CONFERENCES/SEMINARS/FDP



A conference on “Frontiers in Automobile & Mechanical Engineering (FAME 2020)” was organized by Department of Mechanical Engineering in association with University Malaysia Pahang, Malaysia and University Putra Malaysia, Malaysia from 7th August to 9th August 2020.

A 5-Day online FDP on Gender Sensitization and Human rights was organized by School of Law in association with Syiah Kuala University, Indonesia from 18th May to 22th May 2020.



A 5-Day online FDP on Education for Sustainable development was organized in association with Mahsa University, Malaysia from 12th May to 16th May 2020.

A One week webinar series for Faculty was organized by School of Management Studies in association with UNIS, Brazil from 25th May to 30th May 2020.



SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

SCHOOL OF MANAGEMENT STUDIES

Organises One Week Webinar Series

25th May 2020-30th May 2020 Time: 6.00 p.m - 7.00 p.m (IST)

Resource Persons

 25/05/2020 Dr. Diego Henrique Alexandr Professor UNIS Grupo Varginha, Brazil Topic: Creativity blocks	 26/05/2020 Dr. T R Kalailakshmi Associate Professor, Sathyabama Institute of Science and Technology Chennai, India Topic: Ethics in Research
 27/05/2020 Dr. Vilson Martins Filho Professor UNIS Grupo Varginha, Brazil Topic: Service Dominant Logic in Education	 26/05/2020 Dr. Nithya Shankar Assistant Professor, Sathyabama Institute of Science and Technology Chennai, India Topic: Emotional Intelligence
 29/05/2020 Dr. Estela Cristina Vieira de Siqueira Professor, UNIS Grupo Varginha, Brazil Topic: International Law, World Health Organization and Covid-19	 30/05/2020 Mr. John Paul Assistant Professor, Sathyabama Institute of Science and Technology Chennai, India Topic: Decoding Happiness for better relationships

For Registration (First 300 Participants only)
Scan QR Code or Register with Link
<https://forms.gle/RG2EabxV5PJoppH9>

Contact : internationalrelations@sathyabama.ac.in / talita@unis.edu.br

Participants will be issued E-Certificates

<p>PATRONS Dr. Marizzeena Johnson, Chancellor Dr. Marie Johnson, President Sathyabama Institute of Science and Technology</p> <p>Prof. Tan Sri Datuk Dr. H.H. Mohamed Haniffa Bin HJ Abdulillah Pro-Chancellor & Executive Chairman MAHSA University, Malaysia</p> <p>Dato' Dr. Shahril Bin MAHSA Sdn. Bhd, Malaysia Dato' Sharon Bin MAHSA Sdn. Bhd, Malaysia</p> <p>ADVISORS Dr. T. Sasiprabha Vice Chancellor, Sathyabama Prof. Dato' Dr. Ishak bin Abdul Razak Vice Chancellor, MAHSA</p> <p>Dr. Wilson Aruni Pro-Vice Chancellor, Sathyabama Dr. E. Logabhammam Pro-Vice Chancellor, Sathyabama Dr. S. S. Rau Registrar, Sathyabama Dr. Ganesh Ramachandran Dean, FOMBN, MAHSA</p> <p>ORGANIZING SECRETARIES Dr. T. Sasiprabha, Vice Chancellor, Sathyabama Dr. Paulraj Pennathak, Deputy Dean, MAHSA Dr. Antony V Samrat, MAHSA</p> <p>COORDINATORS Dr. Ramesh Kumar V. Head, Biotechnology Mr. Narendrakumar G. Head, Biotechnology Ms. Raji P. Assistant Professor Sathyabama Institute of Science and Technology Ms. Ketharin A.P. Tinasomy, Head, School of Bioscience, MAHSA University</p> <p>ORGANIZING MEMBERS Faculty, Department of Biotechnology Sathyabama Institute of Science and Technology Faculty, School of Bioscience, MAHSA University</p>	<p>SPEAKERS</p> <p> Dr. Kal-Yin Lo, Associate Professor Department of Agricultural Chemistry, National Taiwan University, 1 Sec. 4, Roosevelt Road, Taipei 10617, Taiwan</p> <p> Dr. Suresh Kumar, Associate Professor Department of Medical Microbiology and Parasitology University of Putra Malaysia</p> <p> Dr. Sivaraman Natarajan, Staff Scientists St. Jude Children's Research Hospital Memphis, TN 38105</p> <p> Dr. Sameera Sastry Panchangam, Post Doctoral Fellow Southern Methodist University, Dallas, Texas, USA</p>	<p>International e-Conference on Bioengineering for Health & Environment (ICBHE-2020) July 16th & 17th 2020</p> <p> SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY (DEEMED TO BE UNIVERSITY)</p> <p>&</p> <p> MAHSA UNIVERSITY</p> <p>Organized by Department of Biotechnology School of Bio & Chemical Engineering, Sathyabama Institute of Science & Technology, Chennai, India</p> <p>&</p> <p>School of Bioscience, MAHSA University, Sanjana Putra, Malaysia</p>
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An International e-Conference on Bioengineering for Health & Environment was organized in association with Mahsa University, Malaysia from 16th July to 17th July 2020.

A One Week Online Faculty Development Programme on Engaging Students Online and Offline was organized in association with STIKI Malang, Indonesia from 6th July – 11th July 2020.

SATHYABAMA
Institute of Science and Technology, India
in association with
STIKI Malang, Indonesia
Centre for International Relations
& Department of English

Organise One week Faculty Development Programme on Engaging Students Online and Offline

6th July - 11th July 2020 Time : 11.00 am - 12.00 noon (Indian Standard Time)

Resource Persons

 06/07/2020 Prof. Dilip Barad Professor MK Bhavnagar University, India Making Sense of Online Teaching	 07/07/2020 Ms. Zuzana E. Podyastuti Professor STIKI Malang, Indonesia Maintaining Interaction in Online EFL Classroom	 08/07/2020 Mr. Jozua F. Palandi Professor STIKI Malang, Indonesia The Needs of Engagement in E-Learning Environment
 09/07/2020 Ms. Nara Sari Universitas Kanjuruhan Malang, Indonesia The Unresolved Issues in Student Engagement	 10/07/2020 Dr. Kalyan Chattopadhyay Associate Professor Kolkatta University Pedagogy of Teaching Online	 11/07/2020 Dr. Pushpanigini Sripada Sathyabama Institute of Science and Technology, India Task Based Language Teaching Online

For Registrations - <https://forms.gle/RSBtyAxFjjrc7scF9>

Contact : internationalrelations@sathyabama.ac.in / kui@stiki.ac.id

Participants will be issued E-Certificates

SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
JEPPIAAR NAGAR, RAJIV GANDHI SALAI, CHENNAI - 600 119, TAMILNADU, INDIA

UNIVERSITY OF LEADING THE WAY WESTMINSTER

Cordially invites you all for Joint Online International Workshop for Faculty Development on
CRISPR/Cas9 Human Genome Engineering: Basics and Applications

Organised by Centre for Professional and Career Advancement, Sathyabama Institute of Science and Technology, India and Genome Engineering Laboratory, School of Life Sciences, University of Westminster, London, UK

Patrons
Dr. Mariazeena Johnson, Chancellor Dr. Marie Johnson, President
Dr. T. Sasipraba, Vice-Chancellor

Workshop Convener
Dr. Kalpana Surendranath
Ms, PhD, PGCHE, RHEA, MRSB

Associate professor
Leader of Genome Engineering Lab, School of Life Sciences, University of Westminster, www.westminster.ac.uk

Dr. Kalpana Surendranath is the convener of the Institute of Biomedical Sciences (IBMS)-UK accredited short course in human genome engineering. She conceived the "Gene Editors of the Future" higher education student training and development programme for the sciences funded by Quince Hogg Trust this year. Her recent notable research grants and awards include Royal Society's top project award (2018) at the House of Commons - UK parliament, Children with Cancer UK (2020), Genetics Society (2019) and IZS Health (2018, 2019 and 2020). She is the recipient of the highest honor of the University "The Vice-Chancellor's Westminster Award" (2019), Women of Westminster Award (2020), Individual Award for Teaching Excellence (2019) and Westminster Champion Award for Educational Experience (2020). She is a London STEM ambassador and Aurora AdvanceHE UK role model for women leadership in Higher Education. She has been recognised as a role model by 1 Million Women in STEM in June 2020.

Dr. John J. Murphy
Plenary speaker
Reader and Research Director
Leader of Genome Engineering Lab
School of Life Sciences, University of Westminster

Dr. Kanagaraj Radhakrishnan
Keynote speaker
Project Research Scientist, Francis Crick Institute
Wellington Research Scientist, University of Westminster

Nadine Salasman
Guest speaker
Doctoral Researcher
Genome Engineering Lab

Ahmed Sidani
Guest speaker
Doctoral Researcher
Genome Engineering Lab

Workshop Convener
Dr. Wilson Aram
Pro-Vice-Chancellor
Sathyabama

Workshop Co-ordinator
Dr. Krupakar Parthasarathy, Scientist D
Centre for Drug Discovery and Development
Member, Centre for Professional and Career Advancement, Sathyabama

Date : 24th - 29th August 2020
Time : 5 PM - 7 PM
Everyday (IST)

An Online FDP on CRISPR/Cas9 Human Genome Engineering: Basics and Applications was organized in association with University of Westminster from 24th August - 29th August 2020.

An International Symposium on the "Power of Non-Violence- A Gandhian Principle for Global Integrity" was organized in association with University of Technology Sydney, Australia on 10th Sep 2020.

SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
Jeppihaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119, Tamilnadu, INDIA

UTS
In collaboration with
UNIVERSITY OF TECHNOLOGY SYDNEY
AUSTRALIA

Organize International Symposium on the
Power of Non-Violence: A Gandhian Principle for Global Integrity

DATE: SEPTEMBER 10, 2020 | **TIME: 11 AM - 2 PM IST | 3:30 PM - 6:30 PM EST**

Inaugural Address
Dr. V.P.R. Sivakumar
Registrar, The Gandhigram Rural Institute-Deemed to be University

Program Highlights
Dr. Saravanamuthu Vigneshwaran
Distinguished Professor, School of Civil and Environmental Engineering, UTS

Patrons
DR. MARIE JOHNSON, PRESIDENT
DR. MARIAZEENA JOHNSON, CHANCELLOR
DR. T. SASIPRABA, VICE CHANCELLOR

Organizing Secretary
Dr. Vinita Vishwakarma
Professor (Research), Centre for Nanoscience and Nanotechnology
Conveners
Dr. Saravanamuthu Vigneshwaran
Distinguished Professor, School of Civil and Environmental Engineering, UTS
Dr. Dawn S S
Professor (Research), Centre for Waste Management
Dr. Gayathri Danasamy Naidu
Centre for Technologies in Water & Waste water & Environmental Engineering, UTS

Keynote Address
Dr. M. William Bakaran
Professor and Dean, The Gandhigram Rural Institute-Deemed to be University

Invited Talk
Dr. T. Ravichandran
Assistant Professor, The Gandhigram Rural Institute-Deemed to be University

Valedictory Address
Shri. S C Naveen
Tamilnadu SAP
Project Coordinator
Mahatma Gandhi National Council of Rural Education, MHRD

Co-Conveners
Dr. K Gobli Saravanan
Mr. Arun Govind M

Organizing committee
Dr. Arun J
Ms. N Nirmala
Mr A Santhosh
Mr Karthick A
Ms. Aswini Priya E K

Zoom Link
Meeting Id: 920 2465 6927
Passcode: 509401

Contact us
Email: Sparcslst@gmail.com Mobile: 8838190094/9840996791
Website: www.sathyabama.ac.in
www.centreforwastemangement.com
www.centreforwastemangement.com

INTERNATIONAL STUDENTS SYMPOSIUM

Organizing Universities

SATHYABAMA INSTITUTE OF SCIENCE & TECHNOLOGY

INDIA

U.EXPERIENCE, BRAZIL

BRITISH TEACHING UNIVERSITY OF GEORGIA, GEORGIA

MEISEI UNIVERSITY, JAPAN

WESTERN CASPIAN UNIVERSITY, AZERBAIJAN

TRANSILVANIA UNIVERSITY, ROMANIA

unibz FREE UNIVERSITY OF BOZEN-BOLZANO, ITALY

THE SYMPOSIUM
The conference shall be a place for the students to present their undergraduate degree thesis, online collaboration projects, and postgraduate thesis.
The event will be completely online, with submissions and registrations through the IISS2020 website:
<https://www.even3.com.br/IISS2020>
It will be divided into 3 modalities: undergraduates, online collaboration and postgraduate.
The selected projects will be published in the proceedings of the event and in an extra edition of the "Textos para Discussão", an online journal of UNIS, Brazil, one of U.Experience's Associated Institutions.

THE THEME
The symposium's theme is "Interaction, innovation, and emergence of new insights during and after the pandemic".

THE TRACKS
The papers will be oriented through the following specific tracks:
• Agriculture, Forestry, Fisheries and Veterinary
• Arts and Humanities
• Engineering, Manufacturing and Construction
• Health and Welfare
• Information and Communication Technologies
• Social Sciences, Journalism and Education

"Free Registration"

SUBMISSIONS

- The official language of the IISS2020 is English.
- The templates for the Full Article and for the Extended Abstract are available on the IISS2020 website.
<https://www.even3.com.br/IISS2020>
- The students must submit either a Full Article or an Extended Abstract.
- Undergraduate students shall submit and present undergraduate thesis.
- Postgraduate students shall submit and present their postgraduate thesis.
- Doctorate Students will present in a separate groups.

PRESENTATIONS

- The presentations will take place from 10th to 12th December 2020.
- Timing - 8 am to 11 am (Brazil Time), 4:30 pm to 7:30 pm (Indian Time).
- All presentations must be in English.
- Each presentation will last 10 (ten) minutes plus 5 (five) minutes for the questions and answers section.
- We strongly advise the students to make the presentations online.

PATRONS
Dr. Mariazeena Johnson, Chancellor
Dr. Marie Johnson, President
Dr. T. Sasipraba, Vice Chancellor

CONTACT
Center for Academic Partnership & International Relations
Sathyabama Institute of Science & Technology
Call : 044 - 2450 2736
Mail : internationalrelations@sathyabama.ac.in

A International Symposium was organized in association with U-Experience, Brazil, Meisei University-Japan, Transylvania University, Romania, British Teaching University of Georgia, Western caspia university, Azerbaijan, Free university of Bozen-Bolzano, Italy from 10th December - 12th December 2020.

Communication, Mentoring and Interactive Tools for Virtual Teaching Webinar

Join us on:
 Date: 6-7-8 October 2020
 Time: 15:30-17:30 WIB or 14:00-16:00 IST

For High School English Teachers in Gorontalo, Yogyakarta, and Kepulauan Bangka Belitung, learn more about Virtual Teaching here!

Key Note Speakers

- Dr. Ir. Yusuf P. Kotouh, M.Si, Provinsi Gorontalo
- Didik Wardaya, S.E., M.Pd, Provinsi DIY
- Drs. Muhammad Soleh, MM, Provinsi Kep. Bangka Belitung

Speakers

- Prof. Anita Maria Nathan
- Dr. S. Kishore
- Dr. Pushpa Nagini Sripada

Moderators

- Ravi Makhija, MBA
- Ayu Anastasya Rachman, S.IP, MA

Contact Us for More Info!
 Email: tieupsint@gmail.com

Collaboration Team:

- Prof. Eri Prasetyo Wibowo
- Dr. Nina Kurnia Hikmawati, SE, MM
- Dr. Ir. Wendi Utomo, MM, MSc
- Dr. Hadi Santoso, S.Kom., M.Kom.
- Dr. Aghanto Eko Putra, M.Si
- Jorry Karim, S.Kom, M.Kom

Our Patrons: Dr. Mariazeena Johnson, Chancellor; Dr. Marie Johnson, President; Dr. T. Sasipraba, Vice Chancellor

UNP @hindaedufair | @hindaedufair | hindaedufair@gmail.com | betajardhinda@gmail.com
 +628159337794 | +628116122929 | +628116122929

A Webinar on Communication Mentoring & Interactive tools for Virtual Teaching was organized in association with TIE-UPS, Kepala Dinas Pendidikan, Dinas Pendidikan Pemuda Dan Olahraga DIY from 6th October - 8th October 2020.

“MARINE FIESTA - An Oceanic Quest – jointly organized by Center for Ocean Research, Sathyabama Institute of Science and Technology and IUCN CEM & CEC. The programme was held on Sathyabama Institute Foundation day & World Habitat (Ecology) Day, 5th October 2020.

IUCN - CEC & IUCN - CEM
 INTERNATIONAL UNION FOR CONSERVATION OF NATURE
 Commission on Education and Communication

SATHYABAMA
 INSTITUTE OF SCIENCE AND TECHNOLOGY
 Accredited 'A' Grade by ANITE, 2018. Approved by ANITE

**MINISTRY OF EARTH SCIENCES
 EARTH SCIENCE AND TECHNOLOGY CELL**

**COL. DR. JEPPIAAR RESEARCH PARK
 CENTRE FOR OCEAN RESEARCH**

Marine Fiesta
 An Oceanic Quest - Virtual workshop for School Students

Explore the Marine Biodiversity & Ecosystem from home!

Free Registration

Activities: Create the blue, Craft from waste, Eureka your ideas, A Wake up Pleasure, Not down

Patrons: Dr. MARIAZEENA JOHNSON, Chancellor; Dr. MARIE JOHNSON, President; Dr. T. SASIPRABA, Vice Chancellor; Dr. B. SHEELARANI, Director Research

IUCN PARTNER: Dr. BALAKRISHNA PURUPATI, IUCN-CEC Regional Chair, South and Southeast Asia; Dr. SHALEEN DREBIN, IUCN-CEM Regional Chair, South Asia

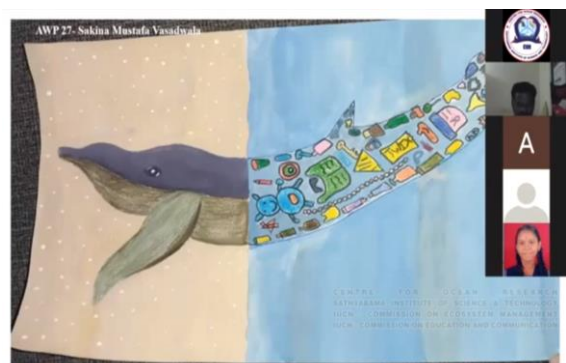
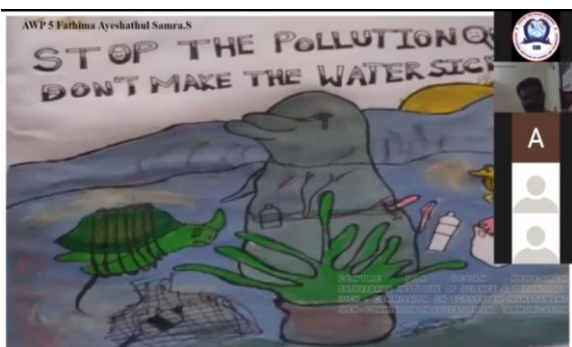
Advisory Committee: Dr. D. INDRAKANTHAN, Head and Scientist E.C. OR; Dr. S. SURESH KARANJAN, Scientist E. COB

Programme Co-ordinators: Dr. SURESH KARANJAN, Centre for Ocean Research

Winners will be awarded with Young Student Communicator Certificate

Registration Certificate for all the Students

For more information contact: Marie.Johnson@iucn.org, betajardhinda@gmail.com, marie.johnson@sathyabama.ac.in



Fast-Track Learning in Climate Change and Marine Life (CCML 2021)" was jointly offered by Center for Ocean Research, Sathyabama Institute of Science & Technology, Chennai in association with Earth Science and Technology Cell, Ministry of Earth Sciences (ESTC – MoES) and IUCN Commission on Ecosystem Management (IUCN - CEM) as a fast track course for the learner who want to know science of climate change and their impact on marine life and ecosystem.

FAST-TRACK LEARNING IN CLIMATE CHANGE AND MARINE LIFE			
SYLLABUS AND SCHEDULE			
Time	Subject	Content	Resource Person
June 12, 2021 (Day 1) UNDERSTANDING CLIMATE CHANGE			
Session 0 0930 - 1015	Welcome	Opening remarks	SIST
Session 1 1015 - 1100	Basic Climate Change Science	Weather and climate, climate change and global warming; source of greenhouse gases, consequences of GHG concentration in the atmosphere and oceans Approach: One presentation; Q&A	Dr.E Vivekanandan
Session 2 1100 - 1200	Climate change scenarios	Changes in temperature in land and sea, rainfall, ice melting, sea level rise, pH, cyclones, etc Approach: One presentation; Q&A	Dr.Grinson George
Session 3 1200 - 1300	Responses to climate change	Two key response measures to deal with climate change, i.e., mitigation and adaptation Approach: One presentation; Q&A	Dr.Grinson George
Break			
Session 4 1400 - 1445	Key terminologies	Impacts, vulnerability, adaptation, mitigation, risk, hazards, shock, variability, trend, exposure, sensitivity, adaptive capacity etc. Approach: One presentation; Q&A	Dr.A Biju Kumar
Session 5 1445 - 1600	Impacts of climate change	Impacts on marine life Approach: One presentation; Q&A	Dr.E Vivekanandan
Session 6 1600 - 1715	Vulnerability to climate change	Concept of vulnerability, vulnerability to natural, physical and social system, how vulnerability varies within societies Approach: One presentation; Q&A	Dr.A Biju Kumar

Centre for Remote Sensing and Geoinformatics and Department of Civil Engineering Col.Dr. Jeppiaar research park, Chennai, India, In Association with Faculty of Environmental Engineering, The University of Kitakyushu, Japan, School of Applied Sciences, Mongolian University of Science and Technology, Mongolia, and Federation of Indian Chambers of Commerce and Industry (FICCI) organized an International Conference on “Innovations in Water Resources and Waste Management (IWRWM2020)” on 03rd and 04th December 2020 Virtually. Participants were from various countries like India, Japan, Indonesia and China. The conference has provided a platform for scientists, researchers, practitioners across the globe to discuss and share their knowledge in the wide fields of waste recycling technology and water resource engineering towards sustainable developments.

13.5 FACULTY EXCHANGE

WOLLO UNIVERSITY KOMBOLCHA INSTITUTE OF TECHNOLOGY, ETHIOPIA **IN COLLABORATION WITH** **SATHYABAMA INSTITUTE OF SCIENCE & TECHNOLOGY, INDIA**

ONLINE FACULTY EXCHANGE PROGRAM

“SHORT TERM SKILL DEVELOPMENT COURSE” ON “AUTOCAD DESIGN” TRAINING FOR AUTOMOTIVE ENGINEERING PART TIME POST GRADUATE STUDENTS

ORGANIZED BY DEPARTMENT OF MECHANICAL ENGINEERING IN ASSOCIATION WITH ENGINEERING COLLEGE POST GRADUATE RESEARCH & CO-ORDINATE OFFICE, KIoT

Dr. S. PRABHAKAR
Associate Professor,
Automobile Stream, Wollo University,
Kombolcha Institute of Technology (KIOT),
Ethiopia

Mr. J. R. DEEPAK
Assistant Professor,
School of Mechanical Engineering,
Sathyabama Institute of Science and Technology,
India

FACILITATORS

Mr. J. R. Deepak, School of Mechanical Engineering, Sathyabama Institute of Science and Technology and Dr. S. Prabhakar, Wollo University, Kombolcha Institute of Technology, Ethiopia participated in Online International Faculty Exchange Program on AutoCAD Design in 4th April 2021 - 25th April 2021.

WaterFall Model - Traditional Model

The Waterfall Model is a breakdown of Project Activities into Linear Sequential Phases, where each phase depends on the deliverables of the previous phase and corresponds to a specialisation of tasks

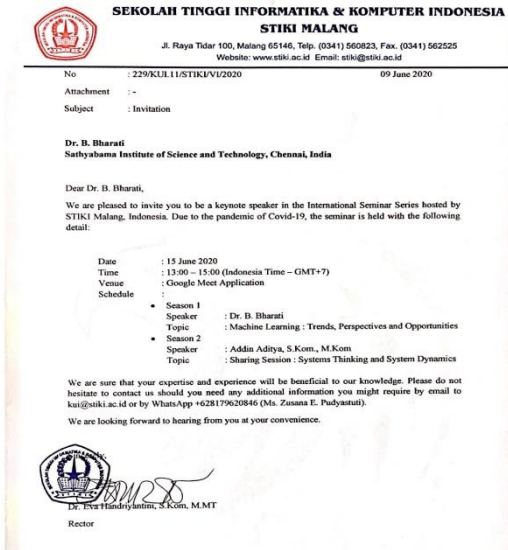
Requirements
Design
Development
Testing
Deployment
Maintenance

Albert John
Nanda Brastara
Jimmy Hartanto
danry dwianto
Ferry Mognawati Manggatan
2 others

Dr. Albert Pravin, School of Computing, Sathyabama Institute of Science and Technology participated in Online International Faculty Exchange Program in Institut Informatika Indonesia (IKADO), Indonesia on October 2021.

Titasari Rahmawati, Institut Informatika Indonesia (IKADO), Indonesia participated in Online International Faculty Exchange Program in School of Computing, Sathyabama Institute of Science and Technology from 17th July 2021 to 7th August 2021.

Dr. B.Bharathi, School of Computing gave a speech on the topic of “Machine Learning: Trends, Perspectives and Opportunities“in International Seminar Series organized by STIKI Malang, Indonesia held on 15th June 2020.



**SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY**
CHENNAI, INDIA
SCHOOL OF LAW
IN ASSOCIATION WITH
SYIAH KUALA UNIVERSITY
BANDA ACEH, INDONESIA
FACULTY OF LAW

Organises Five day Online
Faculty Development Programme on
GENDER SENSITIZATION AND HUMAN RIGHTS
18th - 22nd May 2020 / Time: 11 a.m - 1 p.m (IST)

No Registration Fees

On Successful Completion, All participants will receive E- Certificates

For Registration Scan QR Code or

Live and Recorded Sessions

<https://forms.gle/jmkwsAfJ1YaWz9HZ7>

Contact

- Dr. Dilshad Shaik, Dean, School of Law, Sathyabama Institute of Science and Technology +919849000331 (India) deanlaw@sathyabama.ac.in
- Dr. Azhari Yahya, Vice Dean, for Academic Affairs, Faculty of Law, Syiah Kuala University, Indonesia +62 85372669420 (Indonesia) azhari.yahya@unsyiah.ac.id

Dr. Dilshad Shaik School of Law gave a speech on the topic of “Gender and Identity Sexual Orientation and Human Rights“in 5-Day online FDP on Gender Sensitization and Human rights organized by Syiah Kuala University, Indonesia held on 22nd May 2020.

Dr A Chitra Devi, School of Management Studies gave a speech on the topic of “Contribution of Social Sciences to support community sustainability and pandemic“ in 2nd Annual Conference on Social Sciences & Humanities 2020 organized by Universitas Kanjuruhan Malang, Indonesia held on 28th November 2020.

ANCOSH 2020
2nd Annual Conference on Social Sciences and Humanities
Expanding the Contribution of Social Sciences to Support Community Sustainability amid Pandemic

CALL FOR PAPERS
Authors are requested to submit their abstract before 9 October 2020. The abstract should not exceed 300 words and must contain the following sections:
Introduction • Aim of the Study • Method • Results • Conclusion • Keywords

Please be noted, after a careful refereeing process, selected and accepted papers will be published in the proceedings indexed by Web of Science (WoS).

WEB OF SCIENCE

AIM AND SCOPE
Some interesting topics to be presented on the 2nd Anzosh 2020 cover, but not limited to:

- Islamic Banking
- Small & Medium Business
- Entrepreneurship
- Flexibility Management
- Accounting & Ethic
- Digital Marketing
- Civil Law
- Constitutional Law
- International Law
- EFL/ESL
- Language Education
- Language & Library
- Linguistics Studies
- Literature Studies
- Applied Linguistics
- Character Education
- Education Issue & Policy
- Education Technology & Curriculum
- Multicultural Education
- Social Science
- Teaching & Learning
- Education Assessment & Evaluation
- Social Studies
- Early Childhood Education
- Elementary Education
- Secondary Education
- Higher Education
- Geographical Education
- Civic Education
- Teacher Education & Teacher
- Professional Development
- Guidance & Counseling
- Microfinance

IMPORTANT DATES

- 9 October 2020 Abstract Submission Deadline
- 15 October 2020 Notification of Abstract Acceptance
- 24 October 2020 Payment Deadline
- 26 October 2020 Workshop Scientific Writing
- 4 November 2020 Full Paper Submission Deadline
- 28 November 2020 Conference Date

REGISTRATION FEE & PAYMENT
Registration Link: <https://ancosh2020.bni.id>
BNI: 0100403813
SWIFT/BIC: BININDJAMLD

Contact Us: +62 856-7351-242 | Ajeng Intan Nur R., M.Pd | ancosh@unikama.ac.id

WOLLO UNIVERSITY
KOMBOLCHA INSTITUTE OF TECHNOLOGY (KIOT) - ETHIOPIA

INTERNATIONAL WEBINAR SERIES (PART-7) ON LATEST TRENDS IN AUTOMOBILE
HORSE POWER -2021

ORGANIZED BY:
ENGINEERING COLLEGE POST GRADUATE RESEARCH & COSERVICE OFFICE

IN ASSOCIATION WITH:
SCHOOL OF MECHANICAL AND CHEMICAL ENGINEERING

Scan to Join

*NO REGISTRATION FEE
*OPEN TO ALL
*MAXIMUM 100 PARTICIPANTS WILL BE ALLOWED TO REGISTER
*E - CERTIFICATE FOR THE PARTICIPANTS
*REGISTRATION LINK - <https://forms.gle/9VveK12q67ppc9YD8>
*WEBINAR LINK - <https://meet.google.com/vej-deea-zuu>
DATE : 27.2.2021 (SATURDAY) | 11.30 AM – 8.00 PM (IST)

PRESENTER - 1
Dr. K. V. ANJANA DASRY
PROFESSOR, MECHANICAL ENGINEERING
SCHOOL OF AUT. CONTROL SYSTEMS
TOPIC - OFFICE CHAIRS FOR POWER ASSISTANCE AND MOBILITY
DATE: 14.04.2021 (FRIDAY) 11.30 AM - 12.30 PM

PRESENTER - 2
Dr. TEMANDAR ABEB DEMISE
ASSISTANT PROFESSOR, SCHOOL OF AUTOMOBILE ENGINEERING
TOPIC - NON-STRUCTURAL TESTING: METHODS AND ITS APPLICATIONS IN SYSTEMS DESIGN
INTERNATIONAL STANDARD TIMING: 1.30 PM - 2.30 PM

PRESENTER - 3
Dr. JIMU GHOSAL, PHD
PURSUING MASTER DEGREE IN AUTOMOTIVE ENGINEERING - WOLLO UNIVERSITY, ETHIOPIA
TOPIC - USE OF ROBOTICS FUEL BY USING ALGAE
INTERNATIONAL STANDARD TIMING: 4.30 PM - 6.30 PM

PRESENTER - 4
Dr. S. R. BHAR
ASSISTANT PROFESSOR, SCHOOL OF MECHANICAL ENGINEERING
TOPIC - WELDING OF METALLURGICAL STEEL FOR VARIOUS APPLICATIONS
INTERNATIONAL STANDARD TIMING: 1.30 PM - 4.30 PM

CONTACT
Email - prabhakar@kiot.edu.et
Mobile number - +91 9940322437 (India), +251 904664940 (Ethiopia)

Mr. J. R. Deepak, School of Mechanical was a speaker in an International Webinar Series on Latest Trends in Automobile (Horse Power - 2021) organized by Wollo University, Ethiopia held on 27th February 2021.

Dr. R. B. Durairaj, School of Mechanical gave a speech on the topic “In Robot Studio Software Demo“ in International Workshop on Fundamentals of Robot Programming organized by Wollo University, Kombolcha Institute of Technology, Ethiopia held on 16th April 2021.

WOLLO UNIVERSITY
KOMBOLCHA INSTITUTE OF TECHNOLOGY

INTERNATIONAL WORKSHOP FUNDAMENTALS OF ROBOT PROGRAMMING

CHIEF GUEST

Dr. R. B. DURAIRAJ
ASSISTANT PROFESSOR,
CENTER FOR ROBOTICS AND AUTOMATION, SCHOOL OF MECHANICAL ENGINEERING,
SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY,
INDIA

ADGENDA
IN ROBOT STUDIO SOFTWARE DEMO
1. Basic Jogging Mode Operation
2. Programming Instructions
3. Manual and Automatic Mode of Operation

DATE : 16/4/2021(FRIDAY)
ETHIOPIA LOCAL TIME : 3.00 - 5.00
INDIA TIMING : 11.30 AM - 1.30 PM

*OPEN TO ALL
*E-CERTIFICATE TO ALL THE PARTICIPANTS

ORGANIZER
Dr.S.PRABHAKAR
Mechanical Department(Automobile Stream),
Wollo University, KIOT

Google Meet link : <https://meet.google.com/vej-deea-zuu>

Dr. Preethi Sheshadri, School of Management Studies gave a speech on the topic “Internationalization on Education“ in VII International Congress organized by Group UNIS,

VII Congreso Internacional GRUPO UNIS
IX Semana da EAD GRUPO UNIS
II International Conference UEXPERIENCE
VI Congreso Internacional da red ACINNET

Memorandum of Understanding (MoUs)

14. MEMORANDUM OF UNDERSTANDINGS (MOU)

Sathyabama facilitates collaborative agreements with Industries and Universities at National and International Level. The Institution has signed 250 Plus MoUs which forms the basis for various collaborative activities like student and faculty exchange, Joint seminars, Joint Conference, joint research etc. Partnerships with Industries has resulted in initiatives like Joint academic programmes, internships in Industries, skill development courses, lecture series and expert talks by Industry experts.

14. 1 INTERNATIONAL UNIVERSITIES SIGNED IN THE AY 2020 – 2021

S. No.	Name of the Organization / University	Signed On
1.	Arizona University , USA	Jan-20
2.	Universiti Kebangsaan, Malaysia	April 2020
3.	Abdullal Gul University, Turkey	08/11/2019
4.	Fort Hays State University, USA	June 2020
5.	Universitas Kanjuruhan Malang, Indonesia	June 2020
6.	Eskisehir Technical University, Turkey	July 2020
7.	U.Experience, Brazil	August 2020
8.	Nantong University, China	August 2020
9.	Wollo University, Ethiopia	September 2020
10.	Institut Informatika Indonesia (IKADO), Indonesia	November 2020
11.	United International University, Bangladesh	November 2020

14.2 NATIONAL INDUSTRIES SIGNED IN THE AY 2020 – 2021

S. No.	Name of the Organization / University	Signed On
1.	Elshadai Engineering Works, Chennai	April 2020
2.	National institute for Research in Tuberculosis	Apr-20
3.	Vivagen X	Apr-20
4.	Vans Chemistry, Bangalore (A E-Waste Management Company)	July 2020
5.	WasmanPro Environmental Solutions LLP, Chennai	April 2020
6.	L&T switch gear Ltd, Coonor	August 2020
7.	M/s.Precision machine and Autocomponents Pvt Ltd, Chennai	January 2021
8.	M/s.Precision Equipments Pvt Ltd, Chennai	January 2021
9.	M/s Kovise Foundation Conflict Resolution International, Chennai	September 2020
10.	M/s Eswars House of Corporate and IPR Laws, Chennai	December 2020
11.	The Cyber Crime Clinic, Mumbai	December 2020
12.	International Justice Mission	December 2020
13.	M/s Open Security Alliance and India Watch.in	September 2020
14.	AIC Raise Business Incubator Private Limited	September 2020
15.	Peritum Partners	April 2021
16.	Boudhik Ventures Pvt Ltd	April 2021
17.	Maharajini Consultancy Pvt Ltd	April 2021
18.	National Small Industries Corporation (NSIC)	October 2020
19.	Madras Flying Club Aviation Academy	December 2020
20.	The Rubber Skill Development Council (RSDC)	December 2020
21.	Public Relations Society of India (PRSI)	January 2021
22.	Board of Apprenticeship Training (SR)	February 2021
23.	HumCen Global Private Ltd	February 2021
24.	NCR Corporation India Private Ltd	March 2021
25.	AuthorCafe India Pvt Ltd	March 2021



Our Sincere Thanks to.....

1. Ever supporting management
2. Highly committed Faculty and staff
3. Enthusiastic students.
4. Funding Organisations at National and International level
5. Supportive Partners and Collaborators at National and International level.
6. Media and Publishers

Key Accomplishments (2020 - 2021)

- ★ Ranked at 40th position among the Universities in India by the National Institutional Ranking Framework (NIRF) 2021
- ★ B.E.(CSE), B.E.(EEE), B.E(ECE), B.E(Mechanical), B.E(Civil), B.E (Aeronautical), B.E (Biomedical), B.E (Chemical), B.Tech(IT) and B.Tech (BioTech) Programs are accredited by National Board of Accreditation (NBA)
- ★ Ranked among Top 800 Universities in the World by Times Higher Education Impact Ranking. Ranked among Top 300 Universities for Sustainable Development Goals 13 (Climate Action, Goal 01 No Poverty and Goal 17 (Partnership for Goals and Ranked among the Top 400 Universities for SDG 10 (Reduced Inequalities) for the year 2021
- ★ Ranked among the Top 400 Institutions in Asia by QS World University Rankings 2021
- ★ Ranked in the Band Excellent for Innovation by ATAL Ranking of Institutions for Innovation Achievements ARIIA 2021

