

**Aarupadai Veedu Institute of Technology**

**Paiyanoor, Chennai-603104**

**RESEARCH FACILITIES**

- Central Library with good number of latest journals.
- Subscription to number of national and International Journals and Magazines.
- Digital Library with 8702 e - journals in the area of science and Technology from IEEE,
- ASME, ASC and DELNET.
- Well established IoT lab in association with Intel Intelligent
- Every department have well established Research centers for their Thrust areas
- A 24/7 Wi-Fi Broadband connectivity with a bandwidth of 45 Mbps.
- Well Established CAD/CAM lab facility with necessary software's.
- Well established BOSH lab for Automated testing
- Well Established IC Engines Testing Facility.
- Well Established Metallurgy lab with software analysis.
- Virtual Instrumentation & MATLAB software with all tool boxes.
- AC & DC Motor Drives with TMS320F2812 Digital Signal Processors.
- Standalone Photo Voltaic Training System & Grid Tie d Training System.
- Wind Power Testing Facility.

**CONSULTANCY - FACILITIES**

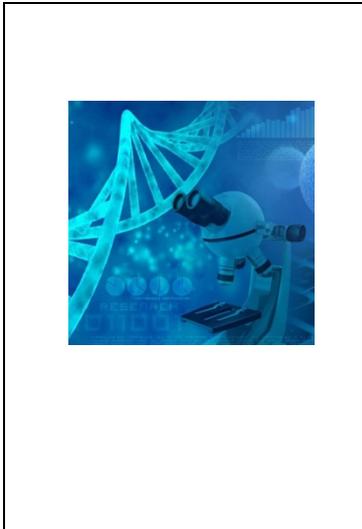
- Department of Mechanical Engineering provided Alternative fuels testing & performance facility
- Department of Bio-technology provided food samples testing facility
- Department of Electrical and Electronics Engineering provided Solar PV panels testing facility
- Department of Management Studies provided HR solutions and training on Business English Communication
- Department of Civil Engineering provided survey total station and structural design.
- AVIT is the authorized nodal center of Tata Consultancy Services-iON(TCS-iON) for organizing various prestigious online- examinations like IBPS, IIT-JEE, Bank examinations, Entrance Examinations etc.,

**RESEARCH SCHOLARS PURSUING Ph.D**

S. No	Department	No. of Candidate		No. of Guides	Thrust Areas
		Part Time	Full Time		
1	BioTechnology	5	0	5	Biotechnology and Microbiology, Plant Genetic Engineering, Cancer Biology, Biochemistry
2	Civil Engineering	8	0	2	Structural and Environmental Engineering
3	Computer Science and Engineering	6	2	3	Computer Networks, Network Security, Wireless Sensor Networks, Cloud Computing, Deep Learning, Image Processing
4	Electronics and Communication Engineering	3	0	1	Antennas, Microwave Communication, Cognitive Computing, Networking, Image Processing
5	Electrical and Electronics Engineering	7	0	3	Power System, Power Electronics, Renewable Energy, AI
6	Bio Medical Engineering	3	0	1	Medical Image Analysis, Image Processing
7	Mechanical Engineering	16	0	3	Alternative fuels, Composite Materials, Welding, WEDM
8	Mathematics	2	0	2	Graph theory-graph labeling Fluid dynamics Graph theory-crossing numbers
9	Physics	0	0	1	Fabrication of Electrodes Nanoporous materials Nanostructured materials Super-capacitors

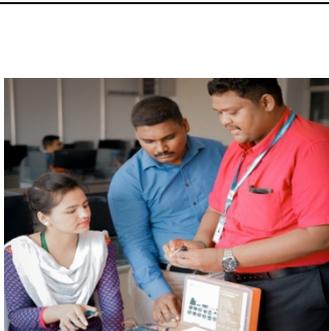
## Research Centres

### Centre for Nanotechnology



The vision of the centre is to provide an interdisciplinary research platform by creating quality education, state of art infrastructure facilities and creating collaborative partners, both domestically and internationally, in all the emerging field of nano technology. Its research and development directed towards understanding the fundamental principles and developing smart functional devices, components and systems suitable for medical and domestic applications. It will house the state-of-art facilities including AFM, FTIR, UV-Visspectrometer, XRD for Characterization and Electrospinning, Electrochemical, Wet Chemical, Sol-Gel and Corrosion techniques for the preparation of nanomaterial's and nanofibres

### Centre for IoT



IoT is a research platform exploring the potential of multidisciplinary research with more end-user interactions. It gives the power to the crowd to be at the core of the research and innovation process. It gives power to change the world and the way we understand it. The center is equipped with Intel Edison boards and state of art sensors for developing real time IoT applications. The students are trained in developing business model projects for entrepreneurship through UC Berkeley - Ficenovation Lab & Micro Acelerator Program. Training to the students are provided through the experts of Intel Fice

### Centre for BOSCH Automotive Research



Aarupadaiveedu institute of Technology and BOSCH have come together to set up a state of the art Joint Certification centre at AVIT premises to provide automotive aftermarket Training. The centre has been equipped with the latest analyzers and Test/work Benches and Auto Electrical strands. This Joint Certification centre aims to provide hands on experience for all its trainees on current technologies that are in use in the industry.

### Infrastructure Available in Training Centre:

- Vehicle air conditioning system and function
- Auto Electrical System
- Vehicle Diagnostics basics and system Diagnostics

### Centre for Renewable Energy Technology

	<p>Renewable Energy Technology mainly enhances research in the field of renewable energy. It mainly concentrates in solar and wind energy sources. It has the state of art facility in</p> <ul style="list-style-type: none"><li>• Solar PV panel characterization and testing for panels up to 200 Wp</li><li>• Solar PV on grid system virtual system for parameter analysis up to 500 Wp</li><li>• Various types of Solar thermal concentrators.</li><li>• Wind energy training system with a 75 W wind turbine run through tunneling effect</li></ul>
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### (i) Centre for Alternate Fuel testing

	<p>The demand of hour is to shift towards renewable energy sources because conventional energy sources are not long lasting and have many issues like pollution, health problem, global warming. As far as automobile industry is concerned the new alternative fuels are being developed to replace conventional petroleum oils. Alternative Fuel testing research lab is used for conducting trials on various biofuels. Lab is equipped with Multi Fuel VCR Engine capable of running with different fuel blends. The engine is coupled with Smoke meter and 5 Gas Analyzer Data Acquisition system with a facility of analyzing exhaust gases as well. The lab is also facilitated with Biodiesel Processor, Emission Gas Recirculation setup and Turbocharger</p>
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## Virtual Instrumentation and Medical Imaging through National Instruments.

	<p>Virtual instrumentation software includes built-in knowledge of hardware integration. Designed to create test, measurement, and control systems, virtual instrumentation software includes extensive functionality for I/O of almost any kind. The LABVIEW software has ready-to-use libraries for integrating stand-alone instruments, data acquisition devices, motion control and vision products, GPIB/IEEE 488 and serial/RS-232 devices, and PLCs, among others, to build a complete measurement and automation solution. Hence the prime objective of this lab is to carry out research in the fields of data acquisition and control, electronic test and measurements, wireless design &amp; testing, medical imaging for various real time applications. It enables the researcher to quickly develop a program, take measurements from an instrument to test a prototype, and analyze results, all in a fraction of the time required to build tests with traditional instruments.</p>
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## Cloud Enabled Central Research Facility for Siemens DCS, COMOS integrated Engineering Design and Simulation.

	<p>The integrated COMOS Software with DCS makes it possible to consolidate automation data from the control systems of different providers and make it available for re-engineering or for a new control system. Using the Automation digital twin of the COMOS software solution, automation data can be read out of the process control system and imported to COMOS to be graphically displayed, consolidated, and made available for further Engineering. COMOS uses this data to support the creation of the plant's digital twin, a fast and reliable migration, and updates to the process control system - all with one single solution</p>
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### It has the state of art facility in

- Low level and high level Process Engineering, Electrical and Instrumentation System Layout.
- Design and Validating Automation Systems.
- Plant Level Simulation.
- Virtual Commissioning with SIMIT Simulation.
- Certificate Training for Automation Products. 6.Consultancy for Industrial Automation

## (ii) Centre for Cloud Computing



Consumers are engaged in more social networking, e-Learning and E-commerce activities and are increasingly storing their documents and media in cloud. Businesses are relying on Big Data analytic for business intelligence and are migrating their traditional IT infrastructure to the cloud. Cloud Computing is attracting everyone's attention, right from service providers to businesses and government, as a means of cost effective provisioning of IT resources. Cloud computing can provide broad capabilities and do much more than traditional infrastructure.

The objectives of the centre include:

- Provide suitable cloud platform for a-Learning
- Prototype common centralized services to university curriculum
- Undertake studies on security and scalability in cloud
- Provide training on virtualization and cloud computing
- Build secure cloud storage, which provides storage space to users to store their data in cloud along with security.

## (iii) Centre for Plant Tissue Culture and Bioprocessing (DST, Govt. of India Funded)



Plant tissue culture is a collection of techniques used to maintain or grow plant cells, tissues or organs under sterile conditions on a nutrient culture medium of known composition. Plant tissue culture is widely used to produce clones of a plant. Bioprocessing is a broad term encompassing the research, development, manufacturing, and commercialization of products prepared from or used

by biological systems, including food, feed, fuels, biopharmaceuticals, and cosmetics

## (iv) Centre for Concrete Research and Testing



The primary purpose of the Concrete Laboratory is to conduct research to develop a better, more durable, cost-effective, and sustainable concrete infrastructure by:

- Investigating and characterizing concrete component materials used for highways including cement, aggregate, supplementary and alternative cementitious materials, and admixtures.
- Assessing and improving durability aspects of concrete.
- Developing and evaluating new test methods or enhance existing testing procedures.
- Collaborating with academia and industry in advancing new emerging technologies.

- Performing forensic investigations requested within the Agency, by State Departments of Transportation (DOTs), and other governmental agencies.

**(v) Centre for Advanced Welding Methods**



The AVIT-Fronius is being established with vision of creating a premier international training, certification, research and development center in the field of welding and allied areas. The aim of this research lab is to create a state of the art infrastructure for becoming a globally recognized source of a competitive workforce and cost-effective, superior-performing welding technologies by conducting training, research and development in the field of welding science, engineering.

Research Lab will include one Robotic GTAW, GMAW Machine and a Welding ROBOT along with Welding Accessories

**THRUST AREA RESEARCH GROUP**

<b>S.No</b>	<b>Department</b>	<b>Thrust area of research</b>	<b>Name of the Faculty</b>
1	BioTechnology	Phytomedicine & Nanoscience	Dr. R. Devika Dr. G. Karthiga Devi
2		Clinical Biochemistry and Cancer Biology	Dr. B. Prabasheela Dr. A. Nirmala
3		Plant genetic engineering and secondary metabolite production	Dr. R. Balachandar Dr. R. Subbaiya
4	Civil Engineering	Concrete technology (special Concretes/alternate pozzalono materials/green building materials)	Dr. S. P. Sangeetha
5		Geotechnical Engineering	Mrs. Pa. Suriya
6		Concrete Technology, Transportation Engineering	Ms. P. Subathra
7		Concrete Technology	Mr. R. Johnson Daniel
8		Concrete Technology, Environmental Engineering	Dr. D. S. Vijayan, Mr. Sudipdas
9	Computer Science and Engineering	Grid / Cloud Computing, Bigdata / Data Analytics	Dr. K. Somasundaram, Dr. R. Jaichandran, Mr. S. Muthuselvan, Mr. K. Karthik

10		Computational Intelligence, Artificial Intelligence, Soft Computing, Algorithm	Dr. S. Rajaprakash, Mrs.T. Vijila
11		Wireless Sensor Network, Cyber Security, IOT	Dr.R. Jaichandran, Dr.S. Rajaprakash, Mr.S. Muthuselvan
12		Data Mining, Big Data, Database Technology	Mr.S. Muthuselvan, Mrs.E. Srividhya Dr.Nitisha Aggarwal
13		Digital Image Processing, Programming Techniques	Mrs.E. Srividhya, Dr.S. Rajaprakash, Mrs.T. Vijila, Mr.K. Karthik
14	Electronics and Communication Engineering	VLSI & Embedded Group	Dr. L. K .Hema Mr. A. Subbiah
15		Image Processing Group	Dr.D.Vijendrababu Prof. P. Subramanian Ms. R. Mohana Priya
16		Bio Sensor Group	Mr. R. Suresh Kumar, Ms. R. Indumathi
17	Electrical and Electronics Engineering	Power Electronics and Drives	P.Rajasekaran , N.P.Gopinath , D.Saranya
18		Power Systems	Dr.K.Boopathy Ms.J.Suganthi , Ms.S.Prakash , Ms.P.Poornima , Ms.G.Nithya Ms.D.Jananisri
19		Renewable Energy	Dr.Venkateskumar

			Dr.Ezhilarasan Mr.V.Rattankumar
20		MEMS & Sensors	Prof. L.Chitra
21	Mechanical Engineering	Advanced Manufacturing Technologies	Mr.S.Ashok Kumar Mr.kalyanaKumar Mr.S.Sathiyaraj Mr.Saravanan
22		CAD/CAM	Mr.Praveen Mr.Ganesh Kumar Mr.k.Vijayakumar Mr.K.Surendra Babu Mr.B.Samuvel Michael
23		Automotive Research	Dr.M.Prabhakar Mr.N.Lakshmi Narayanan Ms.S.Sangeetha Mr.Saravana kumar Mr.C.Thiagarajan Mr.S.Prakash Mr.A.Elanthirayan Mr.R.Mahesh
24		Robotics & Material Research	Dr.D.Bubesh Kumar Mr.J.Senthil Mr.A.Senthil Kumar
25		Materials Joining & Research	Mr.L.Prabhu Mr.A.Imthiyas Mr.B.Selva Babu Mr.J.Antony Casmir

### RESEARCH SUPERVISORS

S. NO.	SUPERVISORS NAME	DEPARTMENT
1	Dr. R. Devika	BIOTECH
2	Dr.B. Prabasheela	BIOTECH
3	Dr. R. Subbiaya	BIOTECH
4	Dr. S.Vinoth	BIOTECH
5	Dr. G. Karthigadevi	BIOTECH
6	Dr.S.P.Sangeetha	CIVIL
7	Dr.D.Vijayan	CIVIL
8	Dr.M.Ponnaivaikko	CSE
9	Dr K Somasundaram,	CSE
10	Dr. R. Jaichandran	CSE
11	Dr L K Hema	ECE
12	Dr M Ravindiran	ECE
13	Dr.G.Ezhilarasan	EEE
14	Dr.K.Boopathy	EEE
15	Dr.M.Venkateshkumar	EEE
16	Dr. P. Shankar	MECH
17	Dr. M. Prabhakaran	MECH
18	Dr. S. Mohanamurugan	MECH
19	Dr.R.N.Viswanath	Physics
20	Dr.G.Suresh	Physics
21	Dr.L.Tamilselvi	Maths
22	Dr.M.Tamizhsudar	Maths
23	Dr.P.Ilayaraja	Chemistry
24	Dr.R.Nagalakshmi	Chemistry
25	Dr.K.Sanghamitra	Chemistry

**PUBLICATIONS IN SCOPUS INDEXED JOURNALS DETAILS**

Department	2014	2015	2016	2017	2018	Total
Bio Technology	10	7	7	8	6	<b>38</b>
Civil Engineering	-	11	7	8	7	<b>33</b>
Computer Science and Engineering	5	6	-	16	10	<b>37</b>
Electronics and Communication Engineering /BME	12	44	37	-	27	<b>120</b>
Electrical and Electronics Engineering	13	2	-	6	12	<b>33</b>
Mechanical Engineering	<b>18</b>	<b>35</b>	<b>23</b>	<b>6</b>	<b>70</b>	<b>152</b>
Science & Humanities	23	16	13	21	8	<b>81</b>
MBA	1	1	3	3	-	<b>8</b>
MCA	-	-	6	-	-	<b>6</b>
<b>Total</b>	<b>82</b>	<b>122</b>	<b>96</b>	<b>68</b>	<b>140</b>	<b>508</b>

### Patents Filed Details

<b>S. No</b>	<b>Name of the department</b>	<b>Name of the Faculty</b>	<b>Patent title</b>	<b>Filed (Year)</b>	<b>Reference No.</b>
1	Biotechnology	Dr. B. Prabasheela	ECO friendly solid Mosquito Repellent	26.09.2018	201841036198
2	Civil Engineering	Dr.S.P. Sangeetha	An Expert system to Ensure safety during construction	26.09.2018	201841036212
3	Computer Science and Engineering	Dr.R. Jaichandran	Prototype to Monitor and Display Energy units consumed with period of consumption and Energy cost	26.09.2018	201841036209
4	Electronics and Communication Engineering	R.Karthikeyan	Wearable Technology for Blind People commutation using Ultrasonic Mapping	26.09.2018	201841036214
5	Electronics and Communication Engineering	Dr.L.K.Hema	Energy Scavenging using NIFTY Floor Tiles	26.09.2018	201841036193
6	Electrical and Electronics Engineering	Dr.S.M.SanathiRekha	Portable Parabolic Solar Cooker with PCM storage Technology	26.09.2018	201841036197
7	Electrical and Electronics Engineering	Dr.S.M. SanthiRekha	Solar Powered Drone with Robotic Arm for Coconut cutting	26.09.2018	201841036211
8	Electrical and Electronics Engineering	P.Rajasekaran	Design of Hybrid wind Turbine using Magneto Resistive Technique	26.09.2018	201841036204
9	Electrical and Electronics Engineering	Dr.K. Boopathy	Self Power Generation in normal cycling system with out battery using Novel Converter	26.09.2018	201841036210
10	Mechanical Engineering	Dr.D.Bubesh Kumar	Hand Driven Car for the Differently abled and Elderly people	26.09.2018	201841036196
11	Mechanical Engineering	N.Fedal Castro	Speedballs Manufacturing Process	26.09.2018	201841036213
12	Science and Humanities	Dr.R.N. Viswanath	Nanocarbon Based Highly Flexible	26.09.2018	201841036201

			Electrodes for Energy storage devices		
13	Computer Science Engineering	Mrs. E. Srividhya	Smart Diagnosis System For Diabetes	Feb-18	201841004943
14	Mechanical Engineering	Mr. D. Bubesh Kumar	Computerised Radial Fatigue Testing Machine For Testing Composite Wheels	Dec-17	CBR NO: 37230 DATE: 04/12/2017
15	Bio Technology	Dr. K. Velmurugan	Cost Effective Natural Medium For Sperm Immobilisation An Alternative For Pvp	Aug-15	CBR NO: 17374 DATE: 17/8/2015
16	Computer Science and Engineering	Mr. R. Jaichandran	Prototype For Data Validation In Wireless Sensor Network	Jul-14	3460/CHE/2014
17	Mechanical Engineering	Dr.M.Venkatraman	Improved Performance And Reduction In Emission Running On Direct Injection Compression Ignition And Homogeneous Charge Compression Ignition Diesel Engine Using Pongamia Oil And Diesel	Jun-15	3018/CHE/2015
18	Mechanical Engineering	Mr.Bubesh Kumar	Fatigue Corrosion Resistance Materials For Medical And Engineering Applications	Jul-15	3401/CHE/2015
19	Mechanical Engineering	Mr.Loganathan	Development Of Low NoxCidi Engine Fuelled With Biodiesel By Internal-Egr	Jul-15	3558/CHE/2015
20	Mechanical Engineering	Mr.J.Senthil Dr.M.Venkatraman	Hybrid Technology Using In Two Stroke Engine	Aug-15	3760/CHE/2015
21	Mechanical Engineering	Mr.Michael Dr.M.Venkatraman -	Technology Using In Eco - Friendly Vehicle	Aug-15	3761/CHE/2015

22	Mechanical Engineering	Mr.Saravanakumar	Technology Using In Compressed Air Engine	Aug-15	3850/CHE/2015
23	Mechanical Engineering	Dr.S.Prabhakar	Performance Test For Lemon Grass Oil Using Single Cylinder Diesel Engine	Sep-15	5019/CHE/2015
24	Mechanical Engineering	Dr.S.Prabhakar	Effect Of Injection Timings On The Performance And Emissions Of Lemon Grass Oil Biodiesel Operated Diesel Engines.	Sep-15	5020/CHE/2015
25	Mechanical Engineering	Dr.S.Prabhakar	Performance Test For Lemon Grass Oil In Twin Cylinder Diesel Engines	Sep-15	5021/CHE/2015
26	Mechanical Engineering	Dr.S.Prabhakar	Experimental Investigation And Analysation For The Performance And Emission Test Using Citonella Oil In Twin Cylinder Diesel Engine	Sep-15	5115/CHE/2015
27	Mechanical Engineering	Dr.S.Prabhakar	Performance And Emission Characteristics Of Citonella Oil In Single Cylinder Diesel Kirloskar Engine	Sep-15	5116/CHE/2015
28	Mechanical Engineering	Dr.S.Prabhakar	Experimental Investigation On Ethanol Blended Fuel In Vcr-Si Engine	Sep-15	5117/CHE/2015
29	Mechanical Engineering	Mr. Bubesh Kumar	Intelligent Baby Warmer	Oct-15	5587/CHE/2015
30	Mechanical Engineering	M.Saravana Kumar R.M.Vicky	The Lenid Engine	Apr-15	E- 2/1154/CHE/20 16
31	Mechanical Engineering	Dr.K.G.Muthurajan Mr.D.Bubesh Kumar	Pit Type Induction Powered Mega Stove	Aug-16	E- 2/1156/CHE/20 16

**PROJECTS FUND RECEIVED FROM FUNDING AGENCIES**

Sl.No	Title of the Project	Name(s) of the Investigators	Funding Agency	Month & Year	Total outlay (in Lakhs)
1	Structural Monitoring of building using IoT	Dr.S.Rajaprakash	Tamil Nadu State Council for Science and Technology	Feb-19	0.075
2	Sentiment analysis on twitter data to understand public opinion on NEET exam in India	Dr.R.Jaichandran	Tamil Nadu State Council for Science and Technology	Feb-19	0.050
3	Investigation of defects induced microstructural changes in three-dimensional topologically complex morphology in nanoporous Au-Pd (Under Materials Science)	Dr.R. N. Viswanath, Dr. P. Shankar	UGC-DAE CSR	Jan-19	10.5
4	A Comprehensive Study on Hardware Trojans- Challenges and Solutions	Dr. L.K.Hema/ECE	DRDO-SAG	Jan-19	9.9475
5	Dissemination of Innovative Technology-Eco friendly paper pens and seed balls for green villages	Dr. S. P. Sangeetha Mrs.Pa.Suriya/ CIVIL	Tamil Nadu State Council for Science and Technology	Nov-18	0.49
6	Digital Marketing App for Rural People	Dr L K Hema	MHRD - Unnat Bharat Abhiyan	Nov-18	0.98
7	An Expert System to ensure safety during construction-	Dr. S. P. Sangeetha / CIVIL	Tamilnadu state council for science and technology.	Apr-18	0.10
8	Determining the students stress factors in Indian school using fuzzy analytical hierarchy process	Dr.S.Rajaprakash / CSE	Tamil Nadu State Council for Science and Technology	Apr-18	0.10
9	Prototype for effective utilization of available well water resource to irrigate multiple agriculture fields effectively	Dr. R.JAICHANDRAN / CSE	Tamil Nadu State Council for Science and Technology	Apr-17	0.10

10	10 Meter Wind Monitoring Station	Dr.M.Venkatraman, Mr.L.Prabhu	MNRE, NewDelhi	Jul-16	5.0
11	Verification and validation of wireless sensor network data for environment monitoring using efficient fault detection methods	Jaichandran R	Computer Societ of India	Mar-15	0.30
12	50 Meter Wind Monitoring Station	Dr.M.Venkatraman, Mr.P.Prabhuraj	MNRE, NewDelhi	Jul-15	6.5
13	Wireless Sensor Network Prototype with GSM and GPRS for Remote Environment Monitoring using data faults detection techniques for filtering erroneous data samples	Jaichandran R	Tamil Nadu State Council of Science and Technology	Apr-14	0.075
14	Large scale production 4-ipomeanol, an anticancer agent	Dr.R.Remya	Department of Biotechnology, Govt. of India, New Delhi	Jan-12	26.48

**PROJECT PROPOSALS SUBMITTED TO VARIOUS FUNDING AGENCIES**

<b>S.No.</b>	<b>Title of the Project</b>	<b>Dept.</b>	<b>Funding Agency</b>	<b>Applied in</b>	<b>Amount in Rs. Lakhs</b>
1	Low Cost Eco Housing System Using Ferrocement	Civil	TNSCST	Feb-19	4.85
2	Film Farming - An Alternative Intensive Agriculture	Civil	TNSCST	Feb-19	4.7
3	Utilization Of E-Waste As Fine Aggregate In Flexible Pavements	Civil	TNSCST	Feb-19	4.8
4	AI based Automatic grading of Lung Cancer in Histopathological Image	ECE	TNSCST	Feb-19	4.7
5	Smart Manhole Sewer gas identification and alert system	ECE	TNSCST	Feb-19	4.9
6	Cloud enabled Energy Management Systems in Hospitals	EEE	TNSCST	Feb-19	4.95
7	Drone Operated Crop Monitoring And Agrochemical Spraying In Agriculture Fields	EEE	TNSCST	Feb-19	4.8
8	Integration of Solar PV Modules on the Top of a Wind Turbine Nacelle for Hybrid Power Generation	EEE	TNSCST	Feb-19	4.6
9	Development Of A Smart Dual PV Inverter For Low Power Application	EEE	TNSCST	Feb-19	4.88
10	Influence Of Nanoparticle In Refrigeration System	Mech.	TNSCST	Feb-19	4.05
11	Condensate Recovery And Waste Heat Utilization In Split Air Conditioners	Mech.	TNSCST	Feb-19	4.00
12	Seed Balls Production Process	Mech.	TNSCST	Feb-19	3.5
13	Design and Fabrication of Nano Porous Ceramic Orthopedic HIP Implants	Mech.	TNSCST	Feb-19	5.0
14	Hybrid Surveillance Robotic Drone For Civil And Military Applications	Mech.	TNSCST	Feb-19	5.0
15	Experimental Investigation On Performance And Emission Control Of Modified GDI Engine With ECU	Mech.	TNSCST	Feb-19	4.793
16	Fabrication Of Solar Based Air Cooler	Mech.	TNSCST	Feb-19	4.75

17	Design, Analysis And Fabrication Of Surveillance Drone – LAW(Land, Air, Water)	Mech.	TNSCST	Feb-19	4.87
18	Determining stress factors among police forces in Tamilnadu using Intuitionistic fuzzy set with Delphi method	CSE	TNSCST	Feb-19	4.52986
19	A Board Maker Application for Multiple Disability Children Area	CSE	TNSCST	Feb-19	4.69979
20	Zno nanoparticles as a carrier: Nano fertilizer formulation for Barnyard millet	BTE	TNSCST	Feb-19	4.73
21	Therapeutic validation of allylated monocarbonyl curcumin analog CA10: Glutathione S-transferase PI as a potential molecular target against cervical cancer	BTE	TNSCST	Feb-19	4.98
22	<i>In vitro</i> assessment of anti urolithiatic activity of formulated herbal extracts	BTE	TNSCST	Feb-19	3.77122
23	Early Detection of Parkinson's Disease	BME	TNSCST	Feb-19	4.9
24	Smart garbage waste management system using load cell technology	BME	TNSCST	Feb-19	4.3
25	Battery Less Ups System Using A Mechanical Fly Wheel As Energy Storage Device	EEE	CPRI	Feb-19	7.934
26	Identifying the soldiers trapped in Ice Glaciers through WSN	ECE	DRDO "Dare to Dream"	Feb.19	
27	Detecting Terrain Surfaces through Self supervised Learning for Unmanned autonomous vehicle	ECE	DRDO "Dare to Dream"	Feb. 19	
28	Deep Learning Methodologies for Detecting and Preventing Zero day attacks for Improving Information Security	CSE	DRDO "Dare to Dream"	Feb. 19	
29	Smart Fabric for Army Personnel for extreme weather conditions	BME	DRDO "Dare to Dream"	Feb. 19	

30	Stress Analysis of Soldiers in war field in day to day activity	BME	DRDO "Dare to Dream"	Feb. 19	
31	Herbal based Chitosan Hemostatic Dressing for Soldiers injured in the battle field.	BTE	DRDO "Dare to Dream"	Feb.19	
32	Healthcare recommendation system based on monitoring climate change using IoT	ECE	DBT/GCE	Feb. 19	
33	Design and Development of a wearable device to monitor vital signs of pregnant women.	ECE	DBT/GCE	Feb. 19	
34	Improved precision based Robot assisted Laparoscopic Surgery	BME	DBT/GCE	Feb. 19	
35	Infant Health Monitoring	BME	DBT/GCE	Feb. 19	
36	Defluoridation of Water using Coir pith activated carbon as adsorbent.	Civil	DBT/GCE	Feb. 19	
37	Deep Learning based Video Analytics for improving security	CSE	DRDO-CAIR	Jan-19	60.95
38	Indigenously designed & Fabricated Trusted Platform Module <b>ASIC</b> for Strategic Applications	ECE	DRDO-ANURAG	Jan-19	335.63
39	Integrated Power Generation Using Bio-Gas with Vegetable Waste from Urban Markets.	EEE	MNRE	Jan-19	47.936
40	Analysis of Artificial Intelligent (AI) Controller based Maximum Power generation algorithm for PEM Fuel Cell System.	EEE	MNRE	Jan-19	41.646
41	Synthesis & Characterization of Metal nanoparticles decorated ZnO Nanorods Array for Nano-bio-Sensors in Detection of Different Diseases Using Bio-Analyte	BME	ICMR	Jan-19	93.343
42	<i>Aloe vera</i> punch as cancer therapeutics	BTE	DBT-ATGC	Dec-18	25.00
43	Fabrication of silver nano composite to alleviate pelvic inflammatory disease for intra uterine device users	BTE	DBT-ATGC	Dec-18	22.16
44	Application of computer data analytics in agriculture for improved crop production	BTE	DBT-ATGC	Dec-18	16.45

45	Entrepreneurship skill development programme for rural women	BTE	TNSCST	Dec-18	0.48
46	Awareness program on rising infertility due to poly cystic ovarian syndrome (PCOS)	BTE	TNSCST	Dec-18	0.49
47	Bioethanol Production from Sugarcane Bagasse	BTE	DBT	Dec-18	6.0
48	A Short Term Training Program For Farmers And Fisherman On Aquaponics, An Integrated Fish And Plant Production System.	Civil	TNSCST	Dec-18	0.50
49	Hands - On Training For Converting Rural AgriProducts To Metro Attractive Products.	Civil	TNSCST	Dec-18	0.50
50	Upgradation and modernization of Electrical Machines lab through modeling and Digitization.	EEE	AICTE-MODROBS	Dec-18	18
51	Modernization and Removal of Obsolescence - Concrete and Construction technology Laboratory	Civil	AICTE-MODROBS	Dec-18	19.89
52	CNC Turning Machining by using a Feature based Methodology in a manufacturing Lab.	Mech.	AICTE-MODROB	Dec-18	19
53	Wireless Sensor Network for Process Control in Industrial Applications	ECE	AICTE-RPS	Nov-18	23.85
54	Design and development of Deep learning based information security system for improved security	CSE	AICTE-RPS	Nov-18	20.55
55	Abiotic stress tolerance transgenic banana plant production by expression of SiNAC transcription factor gene from <i>Setaria italica</i> L.	BTE	AICTE-RPS	Nov-18	20.60
56	Bio Energy – A Global Approach	BTE	AICTE-ISTE	Nov-18	2.95
57	ICT Enabled Teaching Methods	ECE	AICTE-ISTE	Nov-18	2.97
58	Wireless Sensor Networks- Security, Power management challenges & Solutions	ECE	AICTE-STTP	Nov-18	4.88

59	Application of artificial intelligent for power system management	EEE	AICTE-STTP	Nov-18	4.72
60	Structural health monitoring and life cycle assessment of buildings	Civil	AICTE-STTP	Nov-18	4.72
61	Exploration and Application Of Block Chain Technologies	CSE	AICTE-STTP	Nov-18	4.65
62	Advanced Materials and Manufacturing Techniques	Mech.	AICTE-STTP	Nov-18	4.94
63	Development Of Hybrid Nano Based BLDC Motor And Validation Of The Design By Using VLSI Technology	EEE	DRDO,RCI	Nov-18	20.12
64	Development Of A Transformer Less Inverter For A Photovoltaic Based Dynamic Voltage Restorer System	EEE	MNRE	Nov-18	15
65	Accomplishing The Plastic Waste To Develop Soil	Civil	DST	Nov-18	29.53
66	Treatment of Pharmaceutical waste water using anaerobic packed bed reactor	Civil	DST	Nov-18	27.18
67	Creating Teacher Walls In Schools For Better Learning	Civil	UBA	Nov-18	0.95
68	Business Entrepreneur In Mushroom Cultivation	Civil	UBA	Sep-18	0.40
69	Battery Less Ups System Using A Mechanical Fly Wheel As Energy Storage Device	EEE	CPRI	Aug-18	7.934
70	Development of novel method for utilizing red mud, micro silica and M-sand in concrete	Civil	SERB	Jul-18	27.66
71	Mechanization and energy in agriculture	Civil	National agricultural Science fund	Jul-18	0.36
72	Development of Streptomycin from Actinomycetes for defense and Biomedical applications	BTE	LSRB	Jul-18	23.81
73	Enhancing the fungal disease tolerance in Soybean ( <i>Glycine max</i> )using <i>Trichoderma</i> copper nanobioformulations	BTE	DBT	Jun-18	31.34
74	Microbial production of PHA from biodiesel waste	BTE	DBT	Jun-18	24.71

75	Synthesis of triblocknanohydrogels for biofilm eradication	BTE	DBT	Jun-18	19.82
76	Development of Novel Hydrogen Sensor device for Engineering and Biomedical applications (Under Physical Sciences)	Physics	DST-SERB	Jun-18	74
77	Power Quality Improvement of Renewable Energy Management Based Micro grid via Smart Intelligent Controller	EEE	DST	Jun-18	119
78	Anaerobic co-digestion process for the production of biogas	BTE	DBT	May-18	465.93
79	Functional genome characterization and stress tolerant gene expression in Banana (Musa spp.)	BTE	DBT	May-18	32.72
80	ACZS/AZTS Solar Cell for Improved Power Conversion Efficiency	BME	DST	Apr-18	15
81	DST Development And Experimental Evaluation Of Laser Ignited Hydrogen Fueled Engine	Mech.	SERB	Apr-18	87.54