



Research Details

1. Anna University Recognized Research Centers:

PHYSICS

ELECTRONICS & COMMUNICATION ENGINEERING

MECHANICAL ENGINEERING

COMPUTER SCIENCE & ENGINEERING

Other Research Centers:

DSIR-SIRO Recognized Research Center from DSIR- NEW DELHI.

MSME Recognized Business Incubation Centre from MSME-New Delhi.

Under this we have applied 16 projects.

Recognition from UGC: **UGC 2(f) & 12(B) Recognition**

2. Journal Publications:

2012-13: 38

2013-14: 67

2014-15: 126

2015-16:134

2016-17: 68

3. Center of Excellence:

S.No	Name of Center	Department
1	MEMS Design centre	ECE
2	Data Science &Big Data Analytics	CSE
3	Internet of Things	Mechanical

4	Digital Manufacturing	Mechanical
5	Advanced Materials And Manufacturing	Mechanical

4. Consultancy work:

Civil:

M/s. Pelican Associates Private Limited – Cube Compression Test at a cost of Rs. 10,000/-

M/s. Senthil Construction Corporation – Soil Stability Testing at a cost of Rs. 9,000/-

M/s. Shruti Construction – Solid Block Test at a cost of Rs. 1,800/-

M/s. SRV Media – Digital Foot Prints Analysis – Rs. 45,000/-

Kani Tamil Peravai from Anna University – Rs. 25,000/-

IT Dept:

Name of the Consultancy:SRV Media Pvt Ltd

Name of the Project: Website Analysis

Amount sanctioned: Rs.45000

PI details:

Dr.R.Meenakshi, Prof-IT.

Mr.B.Sakthisaravanan, Asst.Prof-IT.

5. Research Lab:

S.No	Name of the Lab	Department
1	PTFE recycling Lab	Science & Humanities
2	Computer Aided Design Lab	Mechanical
3	Centre for Advanced Manufacturing	Mechanical
4	Robotics Lab	ECE
5	Industrial R&D Lab	ECE
6	WET Lab	ECE
7	Data Analytics Lab	CSE

6. Ongoing Projects:

S.No	Dept.	Title of the project	Funding Agency	Amount (In lakhs)	Year
1	Physics	Development of X-ray imaging plate based on filmless radiography	DST	23.04 Lakhs	2012
2	Physics	Development of Non silicate Glasses	BRNS	16.00 Lakhs	2013
3	Physics	Development of a stable RPL/TL phosphor with linear response for radiation dosimetry in high dose region	BRNS	21.15 Lakhs	2013
4	CSE	Semantic Based Event Detection system using Big Data Technique	G.B.Engineering Enterprises Pvt.Ltd	3.78 Lakhs	2015
5	IT	Kani Tamil peravai- softwares in Tamil	Creating Govt. of Tamil Nadu	25,000	2016

7. Patents applied:

S. No	Department	Patent Title	Inventor Name
1.	Mechanical	Modular apparatus for digesting domestic food waste	Dr.V.Muthukumar G.Arulanandam E-2/525/2016-CHE
2.	Mechanical	FDM method for fabricating a polymer composite tibia bone implant.	Dr.V.Muthukumar P.Ramesh E-2/523/2016-CHE
3.	Mechanical	A Novel Device for Passengers Safety During Collision and Fire	Dr.R.Adalarasan Mr.M.Santhanakumar 1614/CHE/2015
4.	Mechanical	A Novel Sustainable Green Concrete	Dr. B. K. Gnanavel Ms. S. Subathra Devi E-3/3802/2015-CHE

5.	Mechanical	A Novel Portable Vertical Axis Wind Turbine Device	Dr. B. K. Gnanavel Dr. N. Raja Rajeswari E-45/363/2015-CHE
6.	Mechanical	Hybrid metal matrix composite for brake drum application	Dr.V.Muthukumar Dr.B.K.Gnanavel 201741003283
7.	Mechanical	A bio-compatible and bio-degradable natural fiber polymer composite internal fixation plate	Dr.V.Muthukumar Dr.B.K.Gnanavel Mr.T. Raja 201741003282
8.	Physics	Development of Filler Grade PTFE Powder	Dr.AR.Lakshmanan
9.	ECE	A Novel Automobile Key	Mr.S.Karunakaran
10.	ECE	Automatic Merchandising Machine	Mr.S.Karunakaran
11.	ECE	Electronic Lab Component Dispenser	Mr.S.Karunakaran
12.	Mechanical	Hybrid metal matrix composite for brake drum application	Dr.V.Muthukumar Dr.B.K.Gnanavel E-3/3802/2015-CHE

8. Projects sanctioned from NIWE:

S. No	Department	Title of the Project	Agency
1.	EEE & CSE	PV Bench marking and performance analysis in Solar Power Plant	MNRE-NIWE
2.	MECH & CSE	Use of SRRA data and IOT for agricultural applications in the area of plant growth monitoring and automation of irrigation activities	MNRE-NIWE
3.	EEE	Indian Yeta for Solar Power Inverters and its efficiency	MNRE-NIWE
4.	MECHANICAL	A Statistical Approach for Hybrid Energy Storage System Sizing based on capacity distributions in an autonomous PV/wind power generation system	MNRE-NIWE
5	MECHANICAL	Design and analysis of solar –wind hybrid	MNRE-NIWE

energy system for urban use

9. No. of Ph.Ds: 49

10. Ph.D pursuing: 120

10. Funding applied (From 2015 to till date) – 71

11. Funding Sanctioned (From 2008 to till date) – 1.35 Crores