

Government College of Engineering, Salem- 11

(An Autonomous Institution affiliated to Anna University, Chennai)



SELF-STUDY REPORT



CRITERION 3

3.2.2 Number of research projects per teacher funded by government, non-government, industry, corporate houses, international bodies during the last five years

(Submitted to National Assessment and Accreditation Council)

Self Declaration

This is to certify that the supporting documents for this metric exceed the 5MB upload limit. Therefore, links to sample documents and some samples are provided in the following pages. Any/all Supporting documents will be provided, if required. All links, documents and images are verified and authenticated.



IQAC – Chairperson

**Internal Quality Assurance Cell
Govt. College of Engineering
Salem - 636 011.**

3.2.2 Number of research projects per teacher funded by government, non-government, industry, corporate houses, international bodies during the last five years (From 2018 - 2019 to 2022 - 2023)

S.No	Name of of the PI/ Co-PI/Name of the person holding the Chair	Title of the research project, endowments, Research Chairs	Name of the funding agency	Duration	Year of award or sanction	Amount in INR. Lakhs
1	Dr.M.Santhi, HoD/ECE	Modernization & Removal of Obsolescence in Communication SystemsLab	AICTE	2018 - 2019	2019	13.06
2	Dr. M Anbarasu, AP/Civil	Investigation on the strength and behaviour of cold-formed steel build-up battened columns	UGC-SERO,Hyderabad	2018 - 2019	2019	2.63
3	Dr.R.Vijayan, HoD/Mech	EDS Attachment for SEM	TEQIP III	2018 - 2019	2018-2019	30.00
4	Dr. D Shoba Rajkumar , HOD/ Civil	Experimental investigation on the analysis and Design of truss with light gauge cold formed steel section	TEQIP III	2018 - 2019	31.8.2018	0.03
5	Dr. M Anbarasu , AP/ Civil	Influence on Ultimate strength of Cold-Formed Steel Lipped Channel Columns subjected to interaction on Distortional Global Buckling	TEQIP III	2018 - 2019	31.8.2018	0.06
6	P. Senthamilselvi , AP/ Civil	Effect of incinerated paper sludge ash on fly ash-based geopolymer concrete	TEQIP III	2018 - 2019	31.8.2018	0.12
7	Dr. R Vijayan , Prof & HOD Mechincal	Experimental Investigation of future HFC/HCs Blended refrigerants for use in small capacity window Air-conditioner	TEQIP III	2018 - 2019	31.8.2018	0.03

8	Dr. T .Balusamy , AP/ Mechincal	Thermal performance of water-in-Glass Evacuated tube solar collector with and without phase change	TEQIP III	2018 - 2019	31.8.2018	0.09
9	A. Baraniraj , AP/ Mechanical	An experimental Investigation and Mathematical Modeling for Electrodeposition of Ni-Zro2 Nanocomposite coating on AA 6061	TEQIP III	2018 - 2019	31.8.2018	0.03
10	Dr. S. Sivalakshmi , AP/ Mechanical	Experimental Investigation on Single-sided Transient natural ventilation driven by Buoyancy	TEQIP III	2018 - 2019	31.8.2018	0.09
11	Prof. M Raja , AP/ Mechanical	Experimental analysis of heat transfer in clay brick and fly ash brick wall	TEQIP III	2018 - 2019	31.8.2018	0.06
12	Prof. R. Jamuna, AP/ Mechanical	Investigation of CNC errors by wireless ball bar tester I square circle diamond test and CMM	TEQIP III	2018 - 2019	31.8.2018	0.03
13	Prof. K . Sakunthala , AP/ Mechanical	Study of Exhaust emission characteristic by ceramic coated Diesel Engine using Rubber seed oil Blend with pure diesel fuel	TEQIP III	2018 - 2019	31.8.2018	0.03
14	Dr. S. Ayyappan, AP/ Mechanical	Optimization of parameters influencing the dynamic behavior of a banana fiber-reinforced polymer matrix curved composite beams	TEQIP III	2018 - 2019	31.8.2018	0.12
15	Dr. C.Govindaraju , AP / EEE	Solar Water Pumping System Employing ZETA Converter and BLDC Motor	TEQIP III	2018 - 2019	31.8.2018	0.12
16	Prof.D.Asokraju, AP/EEE	Synchronous reference frame theory based for unified power quality conditioner in Three-Phase Four-wire distribution system	TEQIP III	2018 - 2019	27.9.2018	0.03

17	Dr. T .R sumithira , AP/ EEE	Investigation and Implementation of New DC-DC Non-Isolated Topology for Solar PV Micro converter with Effective Clamping Circuit	TEQIP III	2018 - 2019	31.8.2018	0.09
18	Dr. G. Kavitha, AP/ ECE	Multi Attribute Real Time Traffic Inference Algorithm for Botnet Detection in Mobile Ad HOC Network”	TEQIP III	2018 - 2019	31.8.2018	0.03
19	Prof. I . Kalpana, AP/ ECE	Analysis of Channel Estimation Algorithms for MIMO OFDM Decoder	TEQIP III	2018 - 2019	31.8.2018	0.03
20	Dr. A. M Kalpana , AP & HOD/ CSE	A Neural Framework to Discover the probability for recommendation Using Association with Clustering Methodology	TEQIP III	2018 - 2019	31.8.2018	0.15
21	Prof. P. Tharani , AP/ CSE	An Exploration of Security Issues in Cloud Environment	TEQIP III	2018 - 2019	31.8.2018	0.03
22	Prof. P. Nithya, AP/ CSE	Big Data Clustering Algorithm and Strategies	TEQIP III	2018 - 2019	31.8.2018	0.03
23	Dr. C. Rani, AP/ CSE	Prediction optimal path for goods delivery to fair price shops in India using Hierarchical Intelligent Water Drops Algorithm	TEQIP III	2018 - 2019	31.8.2018	0.03
24	Dr. K. Karthik, AP/ Metallurgical	Influence of Asymmetric cyclic loading on structural evolution and deformation behavior of Cu-5 at % Zr Alloy: An Atomistic simulation -Based study	TEQIP III	2018 - 2019	31.8.2018	0.06
25	Prof. M . Deepakkumar, AP/ Metallurgy	Optimization on Friction welding of Super Duplex Stainless Steel 2507 using Design of Experiments	TEQIP III	2018 - 2019	31.8.2018	0.03

26	Prof. S . Leemamary, HOD/ Mathematics	New Results for Strong Inverse split and Non-split Domination In Graphs	TEQIP III	2018 - 2019	31.8.2018	0.03
27	Prof. V . Mahadevan, AP/ Mathematics	New Results for Strong Inverse split and Non-split Domination In Graphs	TEQIP III	2018 - 2019	31.8.2018	0.03
28	Dr. K.Kannan, HOD, Chemistry	In Silica Design Synthesis, DFT And Antimicrobial evaluation of some 2, 5 substituted 1, 3, 4 Oxadiazole Derivatives	TEQIP III	2018 - 2019	7.9.2018	0.03
29	Dr.T.Venugopal ,AP,Chemistry	Facile One-Pot Synthesis of Flower like Cobalt Oxide Nanostructures on Nickel Plate and Its Supercapacitance Properties	TEQIP III	2018 - 2019	7.9.2018	0.06
30	Dr.D.Shoba Rajkumar, HOD/ Civil	Synthesis and Characterization of silica from Zea Mays	TEQIP III	2019 - 2020	2.8.2019	0.03
31	Dr.V.Rajkumar, AP/CIVIL	Significant effects of cementitious materials on strength gain properties of concrete with partial replacement of fine aggregate of quarry dust	TEQIP III	2019 - 2020	2.8.2019	0.12
32	Dr.M.Anbarasu AP/CIVIL	Investigation on behaviour of cold formed ferritic stainless steel hollow beams	TEQIP III	2019 - 2020	2.8.2019	0.15
33	Prof.P.Senthamiselvi, AP/CIVIL	Flexural behaviour of reinforced fly ash and paper sludge ash based geopolymer concrete beams	TEQIP III	2019 - 2020	2.8.2019	0.03
34	Dr.R.Vijayan, HoD/Mech	Performance enhancement of centrally finned twist inserted solar collector using corrugated booster reflectors	TEQIP III	2019 - 2020	2.8.2019	0.15
35	Dr.T.Balusamy, AP/Mech	Behaviour OF Hydrogen in industrial scale steel Melts	TEQIP III	2019 - 2020	2.8.2019	0.12

36	Prof.A.Baraniraj, AP/Mech	Experimental investigation of natural composites with epoxy resin	TEQIP III	2019 - 2020	2.8.2019	0.06
37	Dr.S.Sivalakshmi, AsP/Mech	Effect of salinity gradient solar pond upon addition of CaCo3	TEQIP III	2019 - 2020	2.8.2019	0.15
38	Dr.R.Vivekananthan, AP/Mech	The Modelling of contact force of the robot gripper for Deformable object using finite elements method	TEQIP III	2019 - 2020	2.8.2019	0.06
39	Prof.R.Jamuna, AP/Mech	Expertimental investigation of CNC error by part accuracy method	TEQIP III	2019 - 2020	2.8.2019	0.06
40	Dr.M.Mohanraj, AP/Mech	Experimental investigation of mechanical behaviour of prosopis Juliflora with araldite composite	TEQIP III	2019 - 2020	2.8.2019	0.09
41	Prof.K.Sakuthala, AP/Mech	Forecasting energy consumption in Tamilnadu using hybrid heuristic based regression model	TEQIP III	2019 - 2020	2.8.2019	0.09
42	Dr.V.Satheeskumar, AP/Mech	A Study on wear behaviuor of electrical discharge coated magnesium alloy	TEQIP III	2019 - 2020	2.8.2019	0.09
43	Prof.P.Natarajan, AP/Mech	Develoment of numerical model for predicting the characteristic of Ni-SiC nano composite coatings on AISI 1022 Substrate	TEQIP III	2019 - 2020	2.8.2019	0.03
44	Dr.V.Geetha, HoD/EEE	Optimal relocating of compensators for Real-Reactive power Managemment in distributed sytems	TEQIP III	2019 - 2020	2.8.2019	0.06
45	Dr.A.Rubymeena, AP/EEE	A study of automatic generation control of single and multi area power system using PI and Fuzzy logic controller	TEQIP III	2019 - 2020	2.8.2019	0.03
46	Dr.T.R.Sumithira, AP/EEE	Design and Implementation of New topology for Non Isolated DC-DC microconverter with effective clamping circuit	TEQIP III	2019 - 2020	2.8.2019	0.15

47	Dr.S.Ganesan, AP/EEE	Generation scheduling with large scale integration of renewable energy sources using grey wolf optimization	TEQIP III	2019 - 2020	2.8.2019	0.15
48	Dr.C.Govindaraju, AP/EEE	Centralized hybrid renewable power generation using DISO-buck boost converter for Micro grid's	TEQIP III	2019 - 2020	2.8.2019	0.12
49	Dr.C.Vasanthanayaki, HoD/ECE	High performance error tolerant adder for image processing Applications	TEQIP III	2019 - 2020	2.8.2019	0.09
50	Prof.M.Dhinakaran, AP/ECE	ANFIS Modelling for Auto regulation of PCO2 Perfusion system	TEQIP III	2019 - 2020	2.8.2019	0.03
51	Dr.A.M.Kalpana, HoD/CSE	Low Leakage charge recycling technique for power minimiozation in cntfet circuits	TEQIP III	2019 - 2020	2.8.2019	0.06
52	Dr.R.Golda Brunet, AP/CSE	Transcription correction using group delay processing for contineous speech recognition	TEQIP III	2019 - 2020	2.8.2019	0.06
53	Dr.C.Rani, AP/CSE	Design of smart logistics transportation system using mapreduce intelligent water drops algorithm in hadoop environment	TEQIP III	2019 - 2020	2.8.2019	0.03
54	Prof.S.Ruba, AP/CSE	Survey on content based chunking in data depublication on cloud storage environment	TEQIP III	2019 - 2020	2.8.2019	0.03
55	Asso.Prof.D.Noorullah, HoD/Mett	Effect of welding parameters on mechanical properties of friction welded 17-4 PH stainless steel	TEQIP III	2019 - 2020	2.8.2019	0.09
56	Dr.K.Venkatesan, AP/Mett	Influence of SIC nanoparticle reinforcement on FSS welded 6061-T6 Aluminium alloy	TEQIP III	2019 - 2020	2.8.2019	0.09
57	Prof.M.Deepakkumar, AP/Mett	Optimization of friction welding of superduplex stainless steel 2507 using design of experiments	TEQIP III	2019 - 2020	2.8.2019	0.03

58	Dr.B.Anandavel, AP/Mett	A review paper on research workdone in hardfacing of stellite 6 alloy	TEQIP III	2019 - 2020	2.8.2019	0.06
59	Dr.S.Dhanalakshmi, AP/Mett	Friction stir welding of AA5052 & AA6061 Aluminium alloy by using taguchi method	TEQIP III	2019 - 2020	2.8.2019	0.03
60	K.T.Thilagham, AP/Mett	Friction stir weldingof AA2014 & AA6082 Aluminium alloy by using Taguchi method	TEQIP III	2019 - 2020	2.8.2019	0.06
61	Prof.P.Sakthivel, AP/Chemistry	Subalternity and Extentionalism in shashi deshpande's that long silence	TEQIP III	2019 - 2020	2.8.2019	0.06
62	Dr.T.Venugopal, AP/Chemistry	Modelling the removal of lead from synthetic contaminated water by activated carbon from biomass of diplocyclos palmatus by RSM	TEQIP III	2019 - 2020	2.8.2019	0.03
63	Prof.V.Mahadevan, AP/Chemistry	A New algorithm to find the optimal feasible assignment for an assignment problem	TEQIP III	2019 - 2020	2.8.2019	0.15
64	Prof.S.Leema mary, HoD/Mathematics	Social listening using predictive analytics	TEQIP III	2019 - 2020	2.8.2019	0.15
65	Dr.D.Shoba Rajkumar HoD/civil	Experimental investigation on geopolymer mortar using flyash and GGBS	TEQIP III	2020 - 2021	27.02.2021	0.03
66	Dr.V.Rajkumar, AP/CIVIL	An experimental study on geopolymer concrete with partial replacemnet of coearse aggregate by steel slag	TEQIP III	2020 - 2021	06..08.2020	0.06
67	Dr.Anbarasu AP/Civil	Flexural behavior of cover plated CFS built-up beams composed of lipped channels: Comparison of test and design strength	TEQIP III	2020 - 2021	27.02.2021	0.15
68	Prof.T.Murugesan AP/Civil	Sustainable use of sugarcane bagasse ash and marble slurry dust in crusher sand based concrete	TEQIP III	2020 - 2021	27.02.2021	0.03

69	Dr.A.Baraniraj AP/Mechanical	Machining and Optimization of process parameters for titanium alloy in WEDM using ANN	TEQIP III	2020 - 2021	27.02.2021	0.03
70	Prof.K.Kavitha, AP/Mechanical	Experimental investigations of computerized inspection techniques in CNC manufacturing system	TEQIP III	2020 - 2021	27.02.2021	0.03
71	Dr.A.P.Sathiyagnanam AP/Mechanical	Effect retarded injection timing and EGR on performance, combustion and emission characteristics of a CRDi diesel engine fueled with WHDPE oil/diesel blends	TEQIP III	2020 - 2021	27.02.2021	0.09
72	Dr.V.Satheeshkumar AP/Mechanical	Effect of sintered electrode on microhardness and microstructure in electro discharge deposition of magnesium alloy	TEQIP III	2020 - 2021	27.02.2021	0.12
73	Dr.S.Senthilkumar, AP/EEE	Design and Analysis of Non-Isolated DC-Dc boost converter	TEQIP III	2020 - 2021	27.02.2021	0.06
74	Dr.A.Rubymeena, AP/EEE	Performance of distribution grid connected solar photovoltaic array with unified power quality conditioner	TEQIP III	2020 - 2021	27.02.2021	0.06
75	Dr.D.Murali,AP/EEE	Experimental validation of multiloop controllers for two level cascaded positive output boost converter	TEQIP III	2020 - 2021	27.02.2021	0.12
76	Dr.C.Govindaraju,AP/EEE	PV tied three port DC-DC converter operated four wheel drive hybrid electric vehicle	TEQIP III	2020 - 2021	27.02.2021	0.09
77	Dr.K.Logavani, AP/EEE	A novel hybrid DC/Dc and modified quasi Z-source converter for enhanced voltage gain	TEQIP III	2020 - 2021	27.02.2021	0.06
78	Dr.C.Vasanthanayaki, HoD/ECE	Survey on planar antennas for 5G application	TEQIP III	2020 - 2021	27.02.2021	0.15

79	Prof.T.Thenozhi,AP/ECE	Restoration techniques available for satellite image sensing applications	TEQIP III	2020 - 2021	27.02.2021	0.03
80	Prof.P.Indra AP/ECE	Detection of masses in digital mammogram using Non-Linear filters	TEQIP III	2020 - 2021	27.02.2021	0.03
81	Dr.G.Kavitha AP/ECE	Time dependent anomlaly detection system for smart environment using probabilistics timd automaton	TEQIP III	2020 - 2021	27.02.2021	0.06
82	Dr.A.M.Kalpana, HoD/CSE	An automated low cost to based fertilizer intimation system for smart agriculture	TEQIP III	2020 - 2021	27.02.2021	0.06
83	Dr.R.Golda Brunet, AP/CSE	Machine learning techniques used to store efficient cloud data through chunking and date depublication process	TEQIP III	2020 - 2021	27.02.2021	0.03
84	Prof.M.Deepakkumar, AP/Metallurgy	Characterization studies on weld strength of rotary friction welded austenitic stainless steel tubes	TEQIP III	2020 - 2021	27.02.2021	0.06
85	Prof.K.T.Thilagham, AP/Metallurgy	EBSD Results of material flow and Microstructural changes around tool pin for the dissimilar friction stir welded AA6082-T6 and AA7075-T651	TEQIP III	2020 - 2021	27.02.2021	0.09
86	Dr.K.Saranya AP/Physics	Synthesis of novel thiopene fused pyrazoline-thioyanantoethanone derivative: Spectral, DFT, Pharmacological, docking and in vitro antibacterial studies	TEQIP III	2020 - 2021	27.02.2021	0.03

87	Dr.T.Venugopal,AP/Chemistry	Heavy metal index and geographical information system (GIS) approach to study heavy metal contamination: a case study of north chennai groundwater	TEQIP III	2020 - 2021	12.03.2021	0.09
88	Dr.P.Anitha,AP/Physics	Synthesis of novel thiopene fused pyrazoline-thioyanantoethanone derivative: Spectral, DFT, Pharmacological, docking and in vitro antibacterial studies	TEQIP III	2020 - 2021	12.03.2021	0.06
89	Dr.R.Malayalamurthi/Principal	Establishment of Innovative Tamil Nadu Lab	Tamil Nadu Startup and Innovation Mission	2022 - 2023	2022	53.37
Total amount of research projects per teacher funded by government, non-government , industry, corporate houses, international bodies (INR in Lakhs)						104.94


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