

Profile



Name of the Faculty Member : **S.VIJAYARAJ**
Designation : **Director (R&D)**
Professor & Head
Department : **Mechanical Engineering**
College : **AVC College of Engg.,**
Date of Joining : **02.12.1999**

Qualification

Course	Institution	Specialization	Year of Passing	%	Class
PhD	National Institute of Technology, Trichy	Alternate fuels	June 2012	-	-
P.G	Annamalai University	ME (Thermal power)	Dec 2001	8.25 CGPA	I st class with distinction
U.G	Shanmugha College of Engineering	BE (Mechanical)	Apr 1996	69.7%	I st class
Others	-	-	-	-	-

Engineering Experience: 21 Years 0 Month

S. No.	Designation	From	To	Total
1	Lecturer	02.12.1999	30.09.2004	4 Years 10 Months
2	Assistant Professor	01.10.2004	31.11.2011	7 Years 2 Months
3	Associate Professor	01.12.2011	31.08.2012	9 Months
4	Professor	01.09.2012	01.05.2016	3 Years 8 Months
5	Dean Administration	02.05.2016	18.01.2018	1 years8 months
6	Principal-AVCCE	19.01.2018	21.01.2019	1 year
7	Director(R&D)& HOD-Mechanical	22.01.2019	To till date	1 year 11 month

Experience in other Institutions: 3 Years 0 Months

S. No.	Academic/ Industry	Designation	Name of the Institution / Industry	From	To	Total
1	Academic	Instructor	A.V.C. Polytechnic	10.12.1996	1.12.1999	3 years

Total Teaching Experience: 24 years 0 Months

Research guidance:

S.No.	Name of the Scholar	Title of the Research	University and Year of Registration
1	S.K.Ayyappan	Fluidized bed biomass gasification	Anna University & Jan-2017
2	R.Saravanan	Biomass gasification and Tar reduction	Anna University & Jan-2017
3	T.Karthikeyan	Dual fuel operation of syngas from biomass gasification in diesel engine	Anna University & Jan-2017
4	A.Janarthanan	Performance analysis of Solid oxide fuel cell with syngas from biomass gasification	Anna University & Jan-2017
5	M.Karthikeyan	Performance and emission characteristics of biodiesel based fuels in diesel engines	Anna University & Jan-2017
6	S.Rajmohan	Heat transfer characteristics of Heat Pipe Heat Exchanger with Nano Fluids	Annamalai University & March 2014 (Co- guide)
7	K.Vijayarajan	Design and development of graphene based artificial muscles for bio-mimetic applications.	Anna University & July-2018
8	C. Francis Vimalraj	Effect of Nano fluids on Heat transfer characteristics of heat exchanger with inserts.	Anna University Jan 2014 (Joint –supervisor)
9	R.Vijay	Recommended for admission and process not yet completed.	Anna University & Jan-2021

PG Guidance: Guided 9 PG – M.E(Energy Engg.,) Students so far.

Publications

International Journals:

S. No.	Title of the Paper	Name of the Journal	Year of Publication	Volume & Issue and Page No.	Impact Factor
1	Study on Mechanical, Thermal and Morphological Properties of Banana Fiber Reinforced Epoxy Composites	Journal of Bio- and Tribo-Corrosion (on-line)	2020	Vol 6, Article number 60 PP 1-10	1.81
2	Novel Ecofriendly Process for Lanthanum Oxide Nano Fluids in Automobile Radiator for Efficient Heat Transfer	Journal of Environmental Protection and Ecology	2020	21, No 6, 2181–2193	0.69
3	Finding the thermal characteristics of a Heat	International Journal of	2020	Volume -9, issue-3, PP	-

	pipe using hybrid nano fluid	engineering and advanced Technology		507-601	
4	Experimental investigation of Gravity Assisted Heat pipe Heat Exchanger using D.I. Water	Journal of Emerging Technologies and Innovative Research	2018	August 2018, Volume 5, Issue 8	5.87
5	Optimization of process parameters of wet scrubbing of biogas from night soil and vegetable waste using historical and Taguchi design	International Journal of Progress in Industrial Ecology by Inderscience Publication	2015	Vol. 9, No. 2, 2015	-
6	Effect of oxygenated additive on the performance of dual fuel diesel engine with fumigated ethanol and jatropa methyl ester	International journal of Applied Engineering Research	2015	Vol. 10 No.76, 2015	-
7	Performance and emission characteristics of methyl ester from non edible oils in a DI diesel engine with additive and advance injection	International journal of Alternative Propulsion	2012	Vol. 2, No. 2, 2012	-
8	Dual fuel operation of ethyl ester of Jatropa Curcus with ethanol by fumigation	International journal of Vehicle Design.	2009	Vol .50, vol.1/2/3/4,	0.45

National Journals

S. No.	Title of the Paper	Name of the Journal	Year of Publication	Volume & Issue and Page No.
1	Dual fuel operation methyl ester of pongammia pinnata with ethanol by fumigation	National Journal of Technology	2008	4(2), 40-49

No of Papers published in Conference Proceedings

International 5

National 4

Paper Presentations in Conferences

International Conferences

S. No.	Title of the Paper	Name of the Conference	Conference Conducted By	Date
1	Effect of oxygenated additive on the performance of dual fuel diesel engine with fumigated ethanol and jatropa methyl ester.	International Conference on Trends in Engineering & Technology Science & Humanities and Management 2015	Tamizhan College of Engineering & technology	19-20 February 2015
2	Performance Improvement of Wet Scrubbing of Biogas From a Night Soil Based Biogas Plant	International Mechanical Engineering Congress	NIT, Trichy	5-6 June 2014
3	Comparative Performance and Exhaust Characteristics of Methyl Esters Prepared Form Non Edible Oils	International Mobility conference	SAE India, Chennai.	4-5 Dec 2009
4	Performance and Exhaust Characteristics of Dual Fuel Operation in DI Diesel Engine with Pongam Methyl Ester and Ethanol	International conference on Recent Trends in Materials and Mechanical Engineering (ICMME 2008), INDIA	Dr. Mahalingam College of Engineering	18-20 Dec 2008
5	Performance and emission analysis on a direct injection diesel engine using biodiesel from palm oil with exhaust gas recirculation	International conference on Internal Combustion engine Technical Fall 2005 (ICEF2005), Ottawa, Canada.	ASME Internal Combustion Engine Division	24-Sep-05

National Conferences

S. No.	Title of the Paper	Name of the Conference	Conference Conducted By	Date
1	Effect of bio diesel composition on engine emissions	Recent trends in pollution control and environmental conservation;	BIT, Sathyamangalam	15&16 July 2004
2	Performance and Emission Analysis on a Direct Injection Diesel Engine using mixture of Methyl Ester and raw <i>Jatropha Curcus</i> oil and diesel blend with hot exhaust gas recirculation	XIX National Conference On IC Engine And Combustion	The Combustion Institute (Indian Section) Annamalai University, Chidambaram	21-23, Dec2005
3	Dual fuel operation in DI diesel engine with neem methyl esters and ethanol (2009).	National Conference on Low Carbon Technologies in Automobiles	Annamalai University, Chidambaram	27-28 Feb 2009
4	Optimization of process parameters of wet scrubbing of biogas from night soil and vegetable waste using Taguchi	National Conference on Evolution of Green Energy and Vehicle Technology	Sri Venkateswara College of Engineering	02-03 March 2015

Research & Development

S.No	Academic Year	Nature of work Sponsored by Institution/ Industry/ funding Agency	Project Title	Amount Received in Rs.
1	2019-2020	AICTE-MODROB	Design and simulation of fluid flow and heat transfer in renewable energy applications	14,73,334/-

2	2016-2017	Institution	Performance and emission characteristics of electronic fuel injection of syngas from fluidized bed biomass as a dual fuel with diesel (For Purchase of Smoke meter)	1,36,167/-
3	2016-2017	Institution	Characterization of tar from OLGA system produced with fluidized bed biomass syngas (For Up- gradation of existing Gas chromatography)	2,21,025/-
4	2013-2016	AICTE-RPS	Characterization of dual fuel diesel engine with Syngas obtained from Fluidised bed gasification of garden waste with oil gas washing (OLGA) process using jatropha methyl ester and Multi walled Carbon Nano Tube (MWCNT) for tar removal	24,80,000 Completed
5	2015-2016	AVCCE RPS	Design and Fabrication of biomass Stove	18,000/-
6	2012-2013	Institution	Installation of 10 kW solar photo voltaic power plant, 10 m ³ biogas plant from nightsoil and kitchen waste, 1000 LPD solar water heater towards green energy usage and research for the institution.	22,00,000/-
7	2005-2006	Institution	Development of a complete Alternate fuel Engine Using Direct Injection of Methyl ester and Ethanol by Fumigation Technique and five gas Analyser.	8,90,490/-
Total grant fetched so far				74,19,016/-

Consultancy

S. No.	Academic Year	Nature of work (Consultancy towards Institution)	Amount in Rs.
1	2005 to till date	Fabrication of various furniture to college with the help of Non teaching staffs	Rs. 26,47,500 (Total Value)

Faculty Contribution as Resource person

S. No.	FDP / SDP/Workshop/Conference/Guest lecture-Title	Conducted by	Date
1	Conference Co-chair for International Conference on Research and Advances in	Vignan Institute of science and Technology, Telangana	10 th December 2020

	Mechanical Engineering 2020 (ICRAME 2020 – Virtual Mode)		
2	Lecture on “Biomass gasification” under AICTE Training and Learning (ATAL) Academy for 5 Days Faculty Development (FDP) on Alternate Fuels	Department of Mechanical Engineering, University College of Engineering, Anna University-BIT Campus, Tiruchirappalli	8 th December 2020
3	Lecture on “Intellectual property rights” for Faculties in	FDP conducted under ICTACT by IT department of A.V.C college of Engineering	June 2019
4	Conducted external academic audit for NBA accreditation of Mechanical Engineering Department	SKP Engineering College, Tiruvannamalai	2 nd and 3 rd February 2017
5	Lecture on “Renewable Energy for Power Generation and Sustainable Development”	Faculty development program on “Renewable energy for sustainable future” conducted by Department of Mechanical Engineering, AVC College of Engineering	01 to 05 th December 2015
6	Lecture on “Biogas from a Night Soil and vegetable waste – A fuel for engines”		
7	Lecture on “Dissemination of Knowledge gained by the Experience of AICTE Sponsored RPS Project”		
8	Lecture on “Design and Fabrication of Bio Mass Stove”		
9	Invited lecture on “Future of solar Energy in India”	Invited Lecture faculties of ISTE –Staff chapter of AVC College of Engineering.	28 July 15
10	Key note speech- “Recent trends in energy conversion systems” and acted as a Jury for the conference.	International Conference on “Advances in Materials and Mechanical Engineering (ICAMME-2015)” by EGSPE	8 May 2015
11	Guest lecture- “ Renewable energy-Bio mass and bio gas”	Guest lecture for faculty and students of Department of Microbiology and Biology of A.V.C college (Autonomous)	14 August 2014
12	Resource person “Anna university Examination Process”	Faculty refresher programme conducted by AVCCE for new faculties of the college	28 June 2014
13	Resource person-“ME2301 Thermal Engineering” course	One week FDP Sponsored by Anna University conducted by University College of Engineering Pattukottai campus	25 June 2014
14	Resource person- Renewable energy options	Sponsored by DST in Vivekananda college of Engineering and technology for women	13 Oct 2012
15	Guest lecture – Renewable energy sources	Sponsored by TEDA in A.R.J college of Engineering	23 Sep 2010
16	One day workshop –Renewable energy- Biomass and Liquid fuels	Sponsored by TEDA in A.V.C college of Engineering	7 Sep 2010

17	Resource person in “Six days FDP on IT 6801 Service oriented architecture” delivered a Lecture on “Intellectual Property Rights (IPR) and research”	Six days FDP Sponsored by Anna University conducted by A.V.C College of Engineering	16 June 2019
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Faculty Development Programmes & Staff Development Programmes Attended

S. No.	FDP / SDP Title	Conducted by	Date
1	Eight weeks NPTEL online course on “Students Psychology”	NPTEL and NITTR, Chennai	17.03.20 to 16.5.20
2	ICT competency on Higher Education teachers	DG Vaishnav College	15.7.20 to 17.07.20
3	7 day online FDP on NBA Accreditation process	MEA Engineering college, Kerala	20.05.20 to 28.05.20
4	7 day FDP on "NACC Awareness program for faculty"	Marathwada Mitra Mandal Institute of Technology, Pune	08.05.20 to 14.05.20
5	Two Weeks FDP on LaTeX	Spoken tutorial- IIT BOMBAY	20.04.20 to 03.05.20
6	Four weeks NPTEL online course on “Teaching and Learning in general programming”	NPTEL, IISC Bangalore	06.07.2019 to 06.08.2019
7	Six Days workshop On “Certificate course on Patent Drafting” (on six Saturdays)	Center for Intellectual Property Rights (CIPR), Anna University, Chennai	January to February 2016
8	Summer School- STTP on Emerging energy Technology, sponsored by AICTE through ISTE	CEESAT, NIT, Trichy	10 – 21, May 2004
9	Two day work shop on cultivation of <i>Jatropha Curcus</i> and preparation of biodiesel’	SISI, CHENNAI.	Sep-2004
10	Winter School-Workshop on Design of Jigs and Fixtures And Press Tools	Mepco Schlenk Engineering College, Sivakasi	1-15, Dec-2003

Seminars & Workshops Attended

S. No.	Seminar / Workshop Title	Conducted by	Date
1	Every one can do quality research- Innovative research A need of the hour	Knowledge Institute of Technology and Business	23.07.20
2	Every one can do quality research-A general perspective on CFD research	Knowledge Institute of Technology and Business	09.7.20
3	Successful NAAC Accreditation with A/A+/A++ grade and NIRF ranking	AASSAAN Educare Foundation	26/6/20-27/6/20
4	Innovation and Startup	MHRD – IIC, AVC College of Engineering	25.06.20
5	Webinar on CO-PO mapping	Sri Manakula Vinayagar College of Engineering	29.05.2020
6	Intellectual property rights,- Myths and Facts	MBA Department, AVCCE	20.05.20
7	Webinar & Live tour of 3D printing towards Industry 4.0	3DP, Chennai	03.05.2020
8	Opportunities for research with DRDO	ECE Department, AVCCE	29.05.20
9	Exploring the AICTE Initiatives on understanding Human values	S&H Department , AVCCE	26,27 and 28.05.20
10	Research work flows, research metrics and excellence in academic Institutions	AICTE and Elsevier publications	14.05.2020
11	Seminar on Role of ISO in search of quality education	IQAC cell AVCCE	07- Oct-2011
12	Workshop on Funding agencies	R&D cell and staff development committee	9-Sep-2011
13	One Day workshop on Sponsored Research Projects	ISTE Staff chapter AVCCE	16-Dec-2010
14	One Day Workshop on Personality Development	ISTE Staff chapter AVCCE	19-Nov-2010
15	One day workshop on Research Methodology	ISTE Staff chapter AVCCE	10-Nov-2010
16	Engineering Ethics	ISTE Staff chapter AVCCE	15-Sep-2010
17	Teaching Techniques and skills	ISTE Staff chapter AVCCE	20-Apr-2010
18	Instructional Design and Delivery	ISTE Staff chapter AVCCE	19-Apr-2010
19	Knowledge and Skill	ISTE Staff chapter AVCCE	30-oct-2009
20	Common wealth Science and Technology Academy for Research	ISTE Staff chapter AVCCE	5-March-2009
21	Ladder For successes	ISTE Staff chapter AVCCE	25-Nov-2008

22	Ethics for Teachers in Teaching learning Process	ISTE Staff chapter AVCCE	8-Nov -2008
23	How to become a model teacher	ISTE Staff chapter AVCCE	22-Aug-2008
24	One day workshop on Research and faculty development in Technical Institutions	JJ college of Engineering, Trichy	7-Feb-2008
25	Quality Assurance in Technical Education	ISTE Staff chapter AVCCE	11.02.2006
26	Integrated Planning and Management for Natural Disaster	ISTE Staff chapter AVCCE	27.10.2006
27	Effective Teaching Techniques	ISTE Staff chapter AVCCE	18.02.2006
28	Effective Teaching Techniques	ISTE Staff chapter AVCCE	18.02.2006
29	Psychological Approaches and Effective Teaching Techniques	ISTE Staff chapter AVCCE	23.01.2006
30	How to Write And Publish a Research Paper for a Scientific Journal	ISTE Staff chapter AVCCE	18.01.2006
31	Developing Communication Proficiency	ISTE Staff chapter AVCCE	18.01.2006
32	Personality Development Through Simplified Yoga and Meditation	ISTE Staff chapter AVCCE	30.09.2005
33	Ethics and Societal Responsibilities	ISTE Staff chapter AVCCE	29.09.2005
34	Workshop on Accreditation by NBA	ISTE Staff chapter AVCCE	09.12.2005
35	One day workshop on energy conservation possibilities in industries	Velammal Engineering College-Chennai	6-Aug-2005
36	Workshop on Awareness of NBA	ISTE Staff chapter AVCCE	05.09.2005
37	One day Workshop on Advances in IC Engines	St.Josephs Engg. College, Chennai	Feb-2003

Membership in Professional Bodies

S. No.	Name of the Professional Body	Membership
1	Indian Society for Technical Education (ISTE)	Life
2	American Society for Mechanical Engineers (ASME)	Annual up to 2014
3	Society of Automotive Engineers – SAE INDIA	Annual up to 2014

Contribution to AVCCE (Other than Academic work)

College

S. No.	Nature of work	Description of work	Year
1	Director (R&D)	So far fetched 17 lakhs worth of funds from AICTE as Director R&D after Scrutinized Project proposal submitted by faculties and finalized for applying to AICTE. Finalized MOU with NIT Trichy for Students and faculty exchange. Submitted project	Feb 2019 onwards

		proposal for development of Micro wind turbine power plant to Tamilnadu state government.	
2	Principal	Academic head of the College. Detailed achievements are shown below as separate topic.	Jan2018-Jan 2019
3	Dean – Administration	Planning and Execution of Activities related to Project and Electrical Maintenance Departments of three Institutions, Physical Education Department, Industry Institute Interaction, Alumni Activities, Lab equipment Purchase, students discipline, NAAC Accreditation Process of AVCCE. Coordinate the Construction of Multi Purpose Hall built with an estimate of 4.5 Crores.	2016 -2018
4	Coordinator	AICTE Approval Process and Anna University Affiliation process.	2014 onwards
5	IQAC Coordinator	In charge of all quality Enhancement related planning and Submission of Annual AQAR and now submitted the SSR for Second cycle NAAC Accreditation.	2016 -2018
6	Member	Placement Assistant Committee	2015 -2018
7	Member	Publication incentive Scrutiny Committee	2015 2018
8	Coordinator	Pudiyathalaimurai TV channel “Veetuku orru Vigyani” 2013 program	2013
9	Chief Superintendent	Conducting Anna university end semester Examinations	2012-2014
10	Member	NACC-IQAC cell	2012 on wards
11	Coordinator-Catering committee	All college functions like sports day, annual day, graduation day NBA and NACC committee visit etc.,	2012 -2013
12	Convener	Anti ragging committee	2011 -2012
13	Squad	Anti ragging committee	2010-2011
14	Convener	College co curricular activities calendar	2010-2011
15	Co-coordinator	CIA wing	2010 -2012
16	Coordinator	As coordinator Research and development cell and conducted three programs like TEDA one day workshop on ‘Renewable Energy’, one day workshop on ‘Academic excellence and Research motivation’ and inauguration of R&D cell with a keynote address on “Research methodology”.	2010-2011
17	Co coordinator	Anna university inter zone Tournament	2009-2010
18	Co author	TIFAC CORE proposal worth 4 crores on Renewable Energy and arranged for funding to the tune of 55 lakhs from equipment suppliers of the proposed core labs	2009-2010

19	Coordinator	College Calendar	2008 – 2009
20	Convener	College co curricular activities calendar	2007-2008
21	NBA Activities	Member-Parents Meeting	2007 – 2009
22	Over all Convener	Technothirst'06-a national level technical students symposium	2006-2007
23	Executive Member	ISTE Staff chapter AVCCE College of Engineering	2006- 2008
24	Coordinator – stage decoration and seating	All college functions like sports day, annual day, graduation day, building inaugurations,	2006 to 2012
25	Overall Convener	Technothirst'05-a national level technical students symposium	2005-2006
26	NBA Activities	Member-AICTE norms in college level	2005-2006
27	Co- coordinator	Continuous internal assessment test of the institution	2005-2006
28	Coordinator	Field visit-National level seminar on Tsunami rehabilitation	2004- 2005
29	Coordinator	Overall college UG timetable	2003-2004
30	ISO Activities	Internal auditor. Formulated the quality objective and measuring parameters for Transport, hostel, Project department and Electrical maintenance. Suggest a modified counselor form for ISO process	2003 -2016
31	College ad-film	Coordinator for producing the college ad-film	2002-2003
32	Coordinator	Academic college calendar	2002-2003
33	College PRO	PRO for college activities	2002-2003
34	Member	YRC cultural and awareness program on Eye and blood donation	2002-2003

Department

S. No.	Designation	Type of Administration Work	Year
1	Head of the department	Regular administration of the department. Achieved 3 rd rank among Trichy zone colleges offering Mechanical branch, produced University rank students in 2006-2007,2019-2020 and two University I rank students and one III rank student in M.E Energy. Implemented NBA process in the department and applied for NBA accreditation in 2008. Established Mechatronics lab and CAE lab for the department.	Feb 05 to June 08, from June 2010 November 2011 (In-charge) and January 2014 to April 2016 (In-charge) Feb2019 onwards
2	Staff-coordinator	Mechanical Engineering Association	2002-2003
3	Staff-	Department time table in charge	2000-2003

	coordinator		
4	Convener	WAMMS'05-Workshop For higher secondary vocational teachers	2005-2006
5	Convener	Two day workshop on Introduction to ANSYS for faculties.	2006-2007
6	Convener	CITTMEP 2008- National Conference	2007-2008
7	Convener	Mechthirst'08-a National level technical students symposium	2007-2008
8	Convener	MEXPO '07 Students Symposium	Feb 2007
9	Faculty advisor	SAE collegiate club	2007 to till date
10	NBA Coordinator	Department NBA coordinator	July 2008 to 2010
11	ISO coordinator	Department ISO coordinator	2008-2009
12	Coordinator	Department News letter	2009-2010
13	Coordinator	R&D guest Lecture	2009
14	Member	Department Discipline committee	2008-2010
15	Lab In charge	Established the Energy lab as lab in charge and PG coordinator which includes 10 kW solar power plant, 10 m ³ biogas plant, 1000 liters solar water heaters along with other minor and major equipments to the tune of 32 lakhs	2012
16	Convener	FDP on Research Methods and tools on 6 th and 7 th Nov 2014	2014
17	Coordinator	FDP on "TEKLA BIM Software" on 20 th and 21 st February 2015	2015
18	Coordinator	FDP On "Renewable energy for sustainable future" on 01 st to 05 th of December 2015	2015
19	Academic achievement	Produced 100% result in more than 8 times and over 90% result in more than 12 times in AVC College of Engineering	2001 to till date

Student Welfare

S. No.	Contribution Details
1	Staff Coordinator-Mechanical Engineering Association-2002-2003- Conducted group discussions, quiz program every fortnight. Conducted MEXPO 2004- Students Exhibition for Mechanical Engineering students. Bring out Department News letter 'MECHTHRUST' IN THE MONTH OF OCTOBER 2002. Conducted three guest lectures under the MEA.
2	Started Society of Automotive Engineers (SAE) collegiate club in the year 2007. Acted as faculty Advisor - SAE collegiate club from 2007 to 2013 and conducted technical quiz, Aero modeling, 3D modeling and paper presentation contest every year and SAE TREK in 2012 for all SAE student members. Conducted four guest lecture programs under SAE banner.
3	Started Indian Institute of Production Engineers (IIPE) student chapter in the year 2008 and guided the coordinators of the students chapter to conduct guest lecturers, Students competitions like paper presentation, Junk yard war and quiz every year.
4	Started the "ENFUSE" Energy and fuel users Association of India student's chapter with 101 students in the academic year 2015-16.

5	Guided 32 UG Projects and 9 PG projects so far.
6	As Head of the department organized 46 guest lectures from 2005 to till date for the benefit of the students.
7	Counseled many weak students along with their parents for improving their performance and made those students to complete their degree successfully as head of the department from 2005 onwards.
8	Conducted special lectures on the topic of 'job Prospects in power sector', 'Leadership', Positive attitude, and 'Anger Management' lectures to the students over the years.
9	Taken keen interest in arranging placements interviews to students along with placement officer with a special interest in NDT techniques and number of students were placed in this area in 2007 and 2008. Accompanied placement officer to Coimbatore to invite companies to have their placement recruitment in our college in 2011. Arranging various placement drives of various companies along with placement officer as a member of placement assistant committee till date.

One year Achievement as Principal of A.V.C College of Engineering

(Jan 2018-Jan 2019)

Major Achievements:

- NAAC Accreditation with B++ grade with a CGPA of 2.88 out of 4.
- Completed the construction of PEKAK Hall (MPH).
- Enforce strict discipline among students. Developed a good academic environment.
- ISO recertification based on ISO 9001:2015 Regulation.
- Got NCC wing for Our college

General:

- Conducted Anna University Inter zonal state level competitions for Weight lifting for men and women and best physique for men.
- Acted as an Anna University Zonal Coordinator for coordination of all sports and games events for Zone 19 colleges.
- Conducted Anna university Zonal chess tournament sponsored by the Anna University for zone 19 colleges.
- Conducted College alumni meet with participation of all branches from various batches.
- Approval from TN(8) battalion, Kumbakonam to start a platoon of Girls NCC Unit in our college.
- Created online grievance redressal system hosted in college website for students, parents and faculty.
- Depute 6 faculties for AICTE Sponsored Program on "Students induction program" a 10 days module created by AICTE to reinforce the fundamental concepts and language skills of engineering students. The same has been delivered to select the faculties of the institution. All the required planning has been completed to implement the module for students admitted in the year 2019-2020.
- To improve student's admission, a career guidance program titled "Importance of higher education and career guidance" for higher secondary school students has been prepared and around 35 willing faculties are deputed

to conduct this program in schools of Nagai district highlighting our college to attract good admissions.

- Established internet connectivity with 125 Mbps from 50 Mbps speed for the Institution.

Improvements in Pedagogy:

- Assignment system for enabling students writing and reading behaviour.
- Improving the student's internal marks through improvement tests.
- This semester all the departments were requested to form Peer teams with one bright student, two average and one below average students to improve peer learning.
- Implemented attendance entry and internal marks entry software.
- Effective communication with parents through counsellors and SMS through service provider.
- Controlled the students unwanted roaming during lunch hours with a monitoring system.
- Innovative group assignments are given to each peer team to train the students to face the difficulties of Anna University question paper setting and evaluation system.
- Value added courses in all the departments by inviting resource persons from Industry to enhance student's placement opportunities.
- Enforced the outcome based assessment method as per NBA norms in all departments for all subjects including question paper setting by adopting Blooms Taxonomy.
- Course material of faculties uploads in college website for student's reference.
- Faculty development program was extended to 87 faculties.

Student's Progression.

- Conducted 24 hours nonstop students Learnathon programme with participation of around 200 boys and girl students.
- Effectively conducted entrepreneurship programme for 450 students and 10 staff members through EDP cell by organising 4 workshops, one guest lecture programme and two Faculty development programmes.
- Encouraged 61 teams comprising 336 students to participate in National level AICTE Smart India Hackathon Competition. So far one team has been selected in first round of selection process for final presentation.
- Encouraged 52 student batches to apply for TNSCST Students Project scheme and out of which 3 batches fetched grants.
- So far more than 35 students' internships opportunities were created in this year.

Research and development

- IPR Cell has been constituted.
- Effectively conducted Project proposals scrutiny committee.
- Encouraged staff members and scrutinized their proposals for 8 research projects under RPS in AICTE and 1 project in Naval research Board out of which **funds received** from AICTE for two MODROBS proposal, one ISTE-AICTE Refresher programs, one AICTE FDP to the tune of **25 lakhs**.

- Apart from these 5 MODROBS proposals, 1 conference proposal, 13 Seminar/FDP grant proposals were submitted to AICTE.
- Effectively conducted the research progress monitoring committee meeting to access the progress of all 63 faculties pursuing their Ph.D.
- Research centre extension obtained for 3 departments. 3 research scholars had completed their Ph.D from our college research centre in this year.
- Encourage faculty members to undergo NPTEL online course (21 faculty members got certification).

Placement and training

- MOU signed with M/S. Creative consultancy for providing placement opportunities to Mechanical Engineering students to ensure regular placement offers.
- Created an Industry sponsored laboratory sponsored by M/s. Unipro Software Solutions Pvt. Ltd., in Computer science department to expose students to real time industrial projects and internships.
- Conducted communication skill programme for II year students, soft skill programmes for III year students and aptitude programme for IV year students.
- Other language coaching provided to willing students in Hindi language.

Administration:

- Successfully completed the teaching staff assessment process for ensuring 1:20 staff student ratio in all the departments by adopting proper evaluation methodology.
- Assessed the roles of office staff based on work nature like regular, seasonal, and occasional and based on importance of the work. Redistributed the work among them based on this assessment for effective office management.
- Implemented new monitoring system for contract scavengers and revised work allotment for college sweepers and gardeners for better housekeeping.
- Steering the project and electrical maintenance department for our 3 institutions.
- Applied for the DTCP Approval process of all the Institutional buildings.
- Steered the electrical Maintenance department to obtain Safety certificate from Tamilnadu electrical Inspectorate including all additional loads in all three institutions which was obtained earlier in 2009.
- Involved in project management of Painting of the two institutional buildings namely A.V.C College (Autonomous) and A.V.C College of Engineering as DEAN (ADMIN).
- Involved in the wet to dry land conversion process for the lands available in A.V.C college of Engineering premises as DEAN (ADMIN).

Special recognition:

1. Nominated for “Who’s who of the world” by world biographical Institute in the year 2009.
2. Nominated for “Who’s who in Science and Engineering” world biographical Institute in the year 2010.
3. Nominated by ABI (American biographical Institute), United States to “MAN OF THE YEAR” designation for 2011.
4. Nominated by ABI as a recipient of its “SCIENTIFIC AWARD OF EXCELLENCE for 2011”.

Social Activities:

1. Charter Member of **Lions Club of Mayiladuthurai New Century** since the year 2001.
2. Held District level positions like **Zone chairman in 2008-2009, Region Chairman in 2013-2014 and District Chairperson** from 2008 onwards.
3. Received many awards for lionistic service from district level and Multiple and International level.
4. Attended many leadership programmes conducted by the Lions Club International including state level Region Lions Leadership Institute training programme at Kodaikanal.

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Signature of the Faculty