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- INSTITUTION COLLEGE OF ENGINEERING TRIVANDRUM
  
- DATE OF JOINING 01-08-1990
  
- EXPERIENCE 29 YEARS
  
- ADDRESS ( OFFICIAL) DEPARTMENT OF MECHANICAL ENGINEERING, COLLEGE OF ENGINEERING TRIVANDRUM PIN 695016
  
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### Qualifications

GRADUATION : B. TECH , TKMCE, KOLLAM, 1986  
POST GRADUATION : M.TECH, IIT, KHRAGPUR, 1988  
Doctoral Degree : P.hD , IIT KHARAGPUR, 1994

## Publications

### 1. International Conferences

<b>Name of the conference</b>	<b>Title</b>	<b>Year</b>
<i>National Conference on Environmental Testing of Aerospace Systems – Advances &amp; Future Trends (CETAS),</i>	Experimental Investigation of Fault Detection in Multi-row Ball Bearings using Vibration Analysis	October, 2019
7 <sup>th</sup> Asian Joint Workshop on Thermophysics and Fluid Sciences	“Condition monitoring of cavitation induced centrifugal pump”	21-24, November, 2018
20 <sup>th</sup> International Congress on Sound and Vibration (ICSV20), Bangkok, Thailand, July 7–11, 2013.	Condition monitoring of rotating system using GA based artificial Neural network and Fuzzy inference system”	July-7-11, 2013 , Bangkok, Tahiland.
ICTT, 2010, College of Engineering, Trivandrum	Design and Development of Elliptical Cam operated Steering Mechanism”	2010, Trivandrum
6 <sup>th</sup> International Conference on Automotive Engineering (ICAE-6) BITEC, Bankok.	Development of Elliptical Gear operated Steering mechanism for Automobiles	March 29-April2, 2010, Thailand
ICTT-2010, First International conference on Technological Trends”	“Fault diagnosis of spur gears using summarized dot Patterns”	2010, Trivandrum
ICTT-2010, First International conference on Technological Trends”	Thermo structural Analysis of Mettalic TPS	2010, Trivandrum
International Conference on Advanced Manufacturing and Automation-INCAMA-2009	Fault Diagnosis of Ball bearings usin Visual Dot Patterns of Vibration signals	26-28, March -09 VirudhuNagar, Tamilnadu.

## 2.National Conferences

<b>Name of the conference</b>	<b>Title</b>	<b>Year</b>
National Conference on Technological Trends – NCTT-2013	Evaluation of Inter laminar fracture toughness of composite Laminate	2013, Trivandrum
National Conference on Technological Trends – NCTT-2012	Theoretical and Experimental investigation on the effects of various parameters on the performance of Helmholtz Resonator	2012, Trivandrum
National Conference on Technological Trends – NCTT-2012	Investigation on Effects of Misalignment in Weld Joints	2012, Trivandrum
National Conference on Technological Trends – NCTT-2012	Design and Optimisation of a Flywheel for Magnetic suspension reaction wheel	2012, Trivandrum
National Conference on Technological Trends – NCTT-2012	Evaluation of fracture toughness of multi-layered composite with intra-laminar fracture	2012 , Trivandrum
National Conference on Technological Trends – NCTT-2011	Design & Development of a Tunable Vibration Absorber”,	2011, Trivandrum
National Conference on Technological Trends – NCTT-2011	Fault Diagnosis of Spur Gears using symmetrized Dot Patterns”	Trivandrum, 2011
National Conference on Recent Innovations in Technology- NCRIT, RIT, Kottayam.	“Fault diagnosis of Ball bearing with combination defects using visual dot Pattern”	March , 04-06, 2010, Kottayam

## Industry Institute Interaction

### Co-ordinator . TCS- Academic Interface Program

I am co-ordinating the TCS Academic interface program at College of Engineering Trivandrum. Under this I have co-ordinated 14 programs. The academic interface program is a part of our MOU with TCS.

- 1 Student session on 'Value Engineering' on 12-11-2013
- 2 Student session on 'Digital trends and its applicability for Industries' on 1-11-2013
- 3 Event Sponsorship on 'DRISHTI'13' on 2013-09-06
- 4 Faculty Development Programme on 'Evolve to Excel - Train the trainer' on 11-7-2013
- 5 Faculty Development Programme on 'Green IT' on 31-05-2013
- 6 Faculty Development Programme on 'Information Security Management' on 13-5-2013
- 7 Student session on 'Product Engineering' on 15-2-2013
- 8 Faculty Development Programme on 'Cloud Computing' on 15-10-2013
- 9 Event Sponsorship on 'DRISHTI'12' 14-9-2012 - Approved Amount: 100000
- 10 Student session on 'Evolve to Excel - Communication skills/Impromptu' on 23-6-2012
- 11 Student session on 'Evolve to Excel - Interview skills' on 23-6-2012
- 12 Student session on 'Evolve to Excel - Aptitude test/CV writing' on 22-06-12
- 12 Student session on 'Evolve to Excel - SWOT/Just talk' on 22-6-2012
- 14 Best Student Award and Best Project award distribution on 12-03-14
- 15 Digital trends and its Applicability to Industries on 1/11/2013

### Co-ordinator . Mahindra & Mahindra Academic Initiatives

I am co-ordinating the academic initiatives of Mahindra & Mahindra which is a part of the MOU with Mahindra & Mahindra. I have co-ordinated the following activities under this program

1. **Mahindra Auto-quotient 2013–Season 5( Auto Quiz) on 26-10-2013**  
We hosted the south zone Mahindra Auto-quotient season 5 – auto quiz and 134 team participated in the preliminary written round
2. **Mahindra Auto-quotient -2012( Auto Quiz) on 4-06-2012**  
We hosted the south zone Mahindra Auto-quotient quiz and more than 100 participants attended the program
3. **Seminar on “ Alternate Fuel for Transport Vehicles, technology update”, by Dr. Mathew, Head of Dept, R&D division, Mahindra&Mahindra, Chennai, 2012**
4. **Mahindra igniters day on 20-4-2012**  
As a part of the event, we organized a *Design contest* – Design Quotient through which the student could exhibit their passion for vehicles. Top 3 Winners of the Design contest are awarded a Passport for direct entry to Mahindra AFS.

## **Sponsored Projects**

1. **Principal Investigator , " Energy Park" ,** A project sponsored by MNES, India.1998-99. Rs. 2.56 Lakks. Sanctioned for the project.
2. **Co-ordinator- DCA Project – Modernization of CAD Lab,** Dept. of Mech Engg. 1989. An amount of Rs. 6.0 Lakh received for the purchase of a CNC trainer Lathe.
3. **Language Lab –** A language Lab has been set up in CCF with Language Lab Software from ETNL. The software include 30 students module and one Teacher Module.
4. **Co-ordinator , CET-Technology Business Incubator.** Prepared the project proposal for a total cost of 520 Lakhs and presented at IIM Ahemdbad in November, 2011. Revised technical proposal presented at Raman Institute , Bangalore in April, 2012 and got the DST approval for Rs, 420 Lakhs. The TBI is started in the campus and four companies are so far incubated and three student initiative ( pre-incubation) are also started.
5. Principal Investigator , "Design development of a rotary blade paddy harvester system " project submitted to KSCSTE, Trivandrum. The project is approved and an amount of Rs. 4.4 Lakh sanctioned. The project duration is 2 years ( 2014-2016)
6. An initial project report (IPR) for setting up a project proposal For starting a Center of excellence in Agricultural equipments & machinery" is prepared in connection with platinum Jubilee of the college and has been submitted to Government for approval. The project cost is 112.78 Lacs and project duration is 4 years ( 2014-2018)

### **SEMINAR/ SHORT TERM COURSE ORGANISED**

1. Conducted Two 3 day workshop on "Intensive Training on Self Development and Effective Leadership" for the pre-final year students- March, 2014
2. Conducted a three day workshop on "Intensive Training on Self Development and Effective Leadership" for the pre-final year students- Dec, 2013
3. Training on Language Lab: 20 batch of students ( 30 students each) have been given training on Language Lab during 2013-14.
4. Conducted six Two 3 day workshop on "Intensive Training on Self Development and Effective Leadership" for the pre-final year students passed out in 2013.
5. Coordinated the AICTE workshop on National Vocational Education Qulification Framework ( NVEQF) on 26th April, 2012
6. Coordinated the Entrepreneurship Day celebration at College
7. Conducted a visiting faculty Guest Lecture on " Technology Innovation for Indian Agriculture" by M/s John Deeri, Pune.

## Short term course attended

Course Name	Institution	Period		Duration (Days)	Conducted by QIP/ISTE/Others.
		From	To		
<b>Common Laboratory Equipments</b>	<b>I.I.T, Kharagpur</b>	<b>10.12.90</b>	<b>22.12.90</b>	<b>13</b>	<b>A. ISTE</b>
<b>Product Engineering</b>	<b>Vallabh VidyaNagar, Gujrat.</b>	<b>13-5-91</b>	<b>25-5-91</b>	<b>13</b>	<b>ISTE</b>
<b>CIM</b>	<b>P.S.G, Coimbatore</b>	<b>7-6-92</b>	<b>20.6-92</b>	<b>14</b>	<b>ISTE</b>
<b>Advances in Agricultural Equipments.</b>	<b>I.I.T, Kharagpur</b>	<b>17-5-93</b>	<b>29.5.93</b>	<b>13</b>	<b>ISTE</b>
<b>Oil Hydraulics</b>	<b>TISCO, Jamshedpur.</b>	<b>18-7-94</b>	<b>23-7-94</b>	<b>6</b>	<b>ISTE</b>
<b>Computational Fluid Dynamics</b>	<b>College of Engg. Trivandrum</b>	<b>19-5-97</b>	<b>31-5-97</b>	<b>13</b>	<b>ISTE</b>
<b>Management Instruction Skills</b>	<b>Govt. Poly, Valappad</b>	<b>22-6-98</b>	<b>24-6-98</b>	<b>3</b>	<b>ISTE</b>
CAD & 3D modelling	<b>College of Engg. Trivandrum</b>				<b>ISTE</b>
<b>AS-400 System Administration</b>	<b>College of Engg. Trivandrum</b>	<b>2-8-98</b>	<b>21-8-99</b>	<b>20</b>	<b>B. CET</b>
<b>M.S Office</b>	<b>College of Engg. Trivandrum</b>	<b>23-4-98</b>	<b>30-4-98</b>	<b>8</b>	<b>ISTE</b>
<b>Modelling &amp; Simulation of rotor Bearing system</b>	<b>I.I.T, Kharagpur</b>	<b>21-12-98</b>	<b>2-1-99</b>	<b>13</b>	<b>ISTE</b>
<b>Energy Conservation</b>	<b>R.I.T, Kottayam</b>	<b>8-02-99</b>	<b>20-2-99</b>	<b>13</b>	<b>C. DTE</b>
<b>Cryogenic Technology</b>	<b>I.I.Sc, Bangalore</b>	<b>27-9-99</b>	<b>8-10-99</b>	<b>12</b>	<b>ISTE</b>
<b>Open Software Communication Package</b>	College of Engineering, Trivandrum	9-12-2013	13-12-2013	<b>5</b>	DTE
<b>Intellectual Property Rights and Patent Drafting</b>	College of Engineering Trivandrum	3-1-2014	4-1-2014	<b>2</b>	KSCITE & Patent Information Centre , Kerala.

## **Co-ordinator , Career Guidance & Placement Cell**

I am co-ordinating the campus placement from 2003 batch onwards. The average no of companies visiting our campus increased from 18 to 55 during the last ten years. The placement also increased from 48 % to 87 % of the eligible students. I could add more than 30 new companies to visit our campus during the last 10 years. This include MICROSOFT, AMAZON, GOLDMAN SACHS, IOC, BPCL, ONGC, BEL, MAHINDRA & MAHINDRA, CATERPILLAR, FORD MOTORS, SAMSUNG, NOKIA SIEMENS, COMMVault, INFORMATICA etc.

We have built one of the best campus recruitment cell in India. We have created facilities for conducting GD ( two A/c GD Rooms) , Interviews ( 8 A/c Interview Rooms) , and PPT ( 200 seated centrally air conditioned Pre placement presentation auditorium) All necessary infrastructure for conducting online test ( at CCF) . In 2012-13 PWD has spent approximately 36 Lacs to renovate the pre-placement presentation auditorium. An online portal has been developed with the help of 2007 batch CS students and is still used for online CGPU registration. Every year we are conducting an average of 6 training program free of cost for the pre-final year students covering more than 350 students.

The college website has been developed and maintained by the CGPU till 2013 and from 2013 onwards it has been entrusted with CS department.



## **Certificates/Awards/ Appreciations**

- 1.** Certificate of Excellence from M/s Intergraph
- 2.** Certificate of appreciation from M/s Infosys,
- 3.** Certificate, Organising Committee member, International conference on Technological Trends
- 4.** Certificate, Session Chair, NATCON
- 5.** Certificate, Organising Committee member, NCTT

## **IMPORTANT ASSIGNMENTS**

- 1. Principal Investigator , " Energy Park" , A project sponsored by MNES, India.1998-99. Rs. 2.56 Lakks. Sanctioned for the project.**
- 2. Co-cordinator- DCA Project – Modernization of CAD Lab, Dept. of Mech Engg. 1989. An amount of Rs. 6.0 Lakh received for the purchase of a CNC trainer Lathe.**
- 3. Senior staff advisor for the 2000 batch of Mech. Dept.**
- 4. Staff Advisor – ISTE Students chapter from 1999-2002. We have received the best student chapter award for three consecutive years 1999,2000 and 2001.**
- 5. Elected Member, State Management Committee , ISTE Kerala section 2002-2005**
- 6. Secretary , ISTE chapter College of Engineering, Trivandrum. 2003-2006. Received the best chapter award twice during this period.**
- 7. Tequip –Department co-ordinator for Training programs**
- 8. Co-Ordinator, Career Guidance and Placement Unit, College of Engineering, Trivandrum- 2003 to till date**
- 9. Stream Head –Machine Design**
- 10. Member, Board of studies, Kerala University, 2005-2008**
- 11. Chairman, Examination , First Year, (M&U),2013**
- 12. Chairman, Examination seventh semester, (M&U),2013**
- 13. Chairman, Examination , 8<sup>th</sup> semester, (M&U),2014**
- 14. Expert committee member, TePP, T-TBI, Technopark, Trivandrum**
- 15. Co-ordinator, CET- Technology Business Incubator from 2014 onwards.**

## **Guest Lectures / Visiting Faculty**

1. "Entrepreneurship an oppwertunity", Govt. Engineering College, Kannur,
2. Introduction to AutoCAD, TEQIP-course,TKM College of Engineering, Kollam,
3. "Visual Dot pattern, a tool for Condition monitoring, TEQIP course, College of Engineering
4. "Design your Career", Govt Engineering College kannur
5. Basics of theory of Vibrations at GEC Wayanad
6. Career opportunities through Campus interview, LBS, Kasaragod.
7. "Campus Interview An Opportunity, Govt Engg. College , Idukki