

- NAME Dr. A. SAMSON
- EXPERIENCE 30 YEARS
- HOME ADDRESS SANDALE, THEJUS GARDEN
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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

Name of the conference	Title	Year
<i>National Conference on Environmental Testing of Aerospace Systems – Advances & Future Trends (CETAS),</i>	Experimental Investigation of Fault Detection in Multi-row Ball Bearings using Vibration Analysis	October, 2019
7 th Asian Joint Workshop on Thermophysics and Fluid Sciences	“Condition monitoring of cavitation induced centrifugal pump”	21-24, November, 2018
20 th 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 th 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

Name of the conference	Title	Year
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

The following programs are conducted .

- 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

The following Programs conducted.

- 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. Project Cost Rs. 2.56 Lakh
2. **Co-cordinator- DCA Project – Modernization of CAD Lab**, Dept. of Mech Engg. 1989. Project Cost 6.0 Lakh
3. **Technology Business Incubator, College of Engineering Trivandrum**, A Project under DST, Total Project cost 420 Lakhs.
4. Principal Investigator , “Design development of a rotary blade paddy harvester system ” for 2014-16. Project Cost Rs. 4.4 Lakh

CONFERENCES /SEMINAR/ SHORT TERM COURSE ORGANISED

1. Conference Co-chair, 4th International Conference on Material , Mechanics & management (IMMM)- 2020
2. Conference Co-chair , 7th Asian Joint Workshop on Thermo-physics & Fluid Science -2018
3. Organizing Committee , International conference on “ Humanizing work and work Environment (HWWE 2018)
4. Conducted Two 3 day workshop on “Intensive Training on Self Development and Effective Leadership” for the pre-final year students- March, 2014
5. Conducted a three day workshop on “Intensive Training on Self Development and Effective Leadership” for the pre-final year students- Dec, 2013
6. Training on Language Lab: 20 batch of students (30 students each) have been given training on Language Lab during 2013-14.
7. 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.

8. Coordinated the AICTE workshop on National Vocational Education Qualification Framework (NVEQF) on 26th April, 2012
9. Coordinated the Entrepreneurship Day celebration at College
10. 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		
Common Laboratory Equipments	I.I.T, Kharagpur	10.12.90	22.12.90	13	A. ISTE
Product Engineering	Vallabh VidyaNagar, Gujrat.	13-5-91	25-5-91	13	ISTE
CIM	P.S.G, Coimbatore	7-6-92	20.6-92	14	ISTE
Advances in Agricultural Equipments.	I.I.T, Kharagpur	17-5-93	29.5.93	13	ISTE
Oil Hydraulics	TISCO, Jamshedpur.	18-7-94	23-7-94	6	ISTE
Computational Fluid Dynamics	College of Engg. Trivandrum	19-5-97	31-5-97	13	ISTE
Management Instruction Skills	Govt. Poly, Valappad	22-6-98	24-6-98	3	ISTE
CAD & 3D modelling	College of Engg. Trivandrum				ISTE
AS-400 System Administration	College of Engg. Trivandrum	2-8-98	21-8-99	20	B. CET
M.S Office	College of Engg. Trivandrum	23-4-98	30-4-98	8	ISTE
Modelling & Simulation of rotor Bearing system	I.I.T, Kharagpur	21-12-98	2-1-99	13	ISTE
Energy Conservation	R.I.T, Kottayam	8-02-99	20-2-99	13	C. DTE
Cryogenic Technology	I.I.Sc, Bangalore	27-9-99	8-10-99	12	ISTE
Open Software Communication Package	College of Engineering, Trivandrum	9-12-2013	13-12-2013	5	DTE

Intellectual Property Rights and Patent Drafting	College of Engineering Trivandrum	3-1-2014	4-1-2014	2	KSCTE & Patent Information Centre .
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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**

MAJOR ASSIGNMENTS

- 1. Principal Investigator , " Energy Park" , CET**
- 2. Co-coordinator- DCA Project – Modernization of CAD Lab,**
- 3. Co-ordinator , Career Guidance & Placement Cell, CET**
- 4. Co-ordinator , CET-Technology Business Incubator, CET**
- 5.**
- 6. Staff Advisor – ISTE Students chapter from 1999-2002. , CET**
- 7. Elected Member, State Management Committee , ISTE Kerala section 2002-2005, CET**
- 8. Secretary , ISTE chapter College of Engineering, Trivandrum. 2003-2006.**
- 9. TEQIP –Department co-ordinator for Training programs, CET**
- 10. Stream Head –Machine Design ,CET**
- 11. Member, Board of studies, Kerala University, 2005-2008**
- 12. Chair Man Board studies , (UG- Pass 2) 2017-2020**
- 13. Chairman, Examination , First Year, (M&U),2013**
- 14. Chairman, Examination seventh semester, (M&U),2013**
- 15. Chairman, Examination , 8th semester, (M&U),2014**
- 16. Expert committee member, TePP, T-TBI, Technopark, Trivandrum**

- 17. Advisor / Mentor to Kerala Academy for Skills Excellence (KASE)**
- 18. Technical Committee Member , Rural Technology Program (RTP),Kerala state Council for Science, Technology and Environment (KSCSTE)**
- 19. Mentor to Kerala Development and Innovation Strategic Council (K-DISC).**
- 20. Member, DPC, SCT Engineering College, Pappanamcode.**
- 21. Member, DPC, VSSC , Trivandrum.**