



**DEPARTMENT OF MECHANICAL ENGINEERING
GOVERNMENT COLLEGE OF ENGINEERING-BARGUR**

(AUTONOMOUS)

KRISHNAGIRI- 635 104, TAMILNADU

Approved by AICTE, New Delhi and Affiliated by Anna University, Chennai

Visit us: www.gcebargur.ac.in



FACULTY PROFILE

Name	Dr .I. ASHOK KUMAR
Designation	Assistant Professor
Office Address	Department of Mechanical Engineering
Telephone	-
Mobile	+91 9443694823
Email	akrt02au@gmail.com
Field(s) of Specialization:	Tribology, Composite Materials, Optimization, Nano materials.

Employment Profile

Job Title	Employer	From	To
Assistant Professor (Sr.Gr)	Government College of Engineering, Bargur	16.05.2017	Till date
Assistant Professor	Annamalai University	06.07.2006	15.05.2017

Academic Qualifications (From Highest Degree to High School):

Examination	Board /University	Year
PhD. Composite Materials	Annamalai University	2016
M.E. Manufacturing Engineering	Annamalai University	2010
B.E. Mechanical and Production Engineering	Annamalai University	2002

Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Estate Officer	GCE Bargur	16.05.2018	05.05.2020
TEQIP III Academic Nodal Officer	GCE Bargur	2020	Till date



DEPARTMENT OF MECHANICAL ENGINEERING
GOVERNMENT COLLEGE OF ENGINEERING-BARGUR

(AUTONOMOUS)

KRISHNAGIRI- 635 104, TAMILNADU

Approved by AICTE, New Delhi and Affiliated by Anna University, Chennai

Visit us: www.gcebargur.ac.in



Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2016	Best Research paper and reward of \$ 1000 US dollars	Journal of Friction

Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ CoSupervisor)	Year of Award
Ravi varma penmetsa	Modeling & optimization of Die sinking EDM process for machining of nimonic 901 alloy	Supervisor / Annamalai University	On going

Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Recent Advances in Mechanical Sciences & Technology	National Conference	29-30, Nov-2018	Treasurer	Mechanical Dept. Govt. College of Engg., Bargur
Career Guidance Programme	Students	25-26, Mar-2019	Coordinator	Mechanical Dept. Govt. College of Engg., Bargur
Recent Trends in bio and nano composite materials	National	01-07, July-2019	Coordinator	Mechanical Dept. Govt. College of Engg., Bargur



DEPARTMENT OF MECHANICAL ENGINEERING
GOVERNMENT COLLEGE OF ENGINEERING-BARGUR

(AUTONOMOUS)

KRISHNAGIRI- 635 104, TAMILNADU

Approved by AICTE, New Delhi and Affiliated by Anna University, Chennai

Visit us: www.gcebargur.ac.in



Publications

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
Queen Alice A, Arul Jeya Kumar A, Prakash M, Ashok Kumar I	Thermal characterizations of Basalt fiber reinforced Poly(aryl-ether-ketone) Biomedical Composites.	Journal of thermal Analysis and Calorimetry. DOI :10.1007/s10973-020-10506-3, SCIE, I.F 2.471.			2020	2.471
M. Seemana P. Sivaraj R. Seetharaman and I. Ashok Kumar	ANALYSIS AND OPTIMIZATION OF MACHINING PARAMETER DURING TURNING OF A356/10%SiCp MMC USING RESPONSE SURFACE METHODOLOGY APPROACH	ICAMBC 2020 IOP Conf. Series: Materials Science and Engineering 961 (2020) 012014 IOP Publishing doi:10.1088/1757-899X/961/1/012014			2020	
Senthilvel K, Arul Jeya Kumar A, Seeman M, Ashok Kumar I , Prabu B	Studies the effect of halloysite nanotubes on the mechanical and hot air ageing properties of nitrile-polyvinyl chloride rubber nano-composites	Materials Today: Proceedings,			2020	
I. Ashok Kumar , A. Arul Jeya Kumar, and M. Prakash	Thermal Characterization of Flax/Basalt Fiber Reinforced Phenol	JOURNAL OF NATURAL FIBERS	14		2019	2.622



DEPARTMENT OF MECHANICAL ENGINEERING
GOVERNMENT COLLEGE OF ENGINEERING-BARGUR

(AUTONOMOUS)

KRISHNAGIRI- 635 104, TAMILNADU

Approved by AICTE, New Delhi and Affiliated by Anna University, Chennai

Visit us: www.gcebargur.ac.in



	Resin Brake Pad Material: Effective Replacement of Asbestos					
ARUNA V, ALGAPPAN N, ASHOK KUMAR I	Thermal Performance Of Internally Grooved Heat Pipe With Different Flow Rate And Orientation	Journal Of Manufacturing Engineering,	14	071-075	2019	
V. Srinivasan, P.Shanmugapriya , K.Karthik, I. Ashokkumar , A. Aruljeyakumar B. Asaithambi	A Study on Friction and Wear of Glass Fibre Reinforced Plastics Filled with Nano Al ₂ O ₃ Using Pin on Roller Method	International Innovative Research Journal of Engineering and Technology	4	160-168	2018	
V. Srinivasan, P.Shanmugapriya , K.Karthik, I.Ashok Kumar A.Aruljeyakumar, B. Asaithambi	Effect of Nano- Al ₂ O ₃ on Wear Characteristics of GFRP Composites	International Innovative Research Journal of Engineering and Technology	4	169-175	2018	
I. Ashok Kumar , A.Aruljeyakumar, B.Asaithambi, V.Srinivasan	Wear Behaviour of Hybrid Fiber Reinforced Phenolic Composite Materials	International Innovative Research Journal of Engineering and Technology	4	189-195	2018	
B.Asaithambi, I. Ashok Kumar , A.Aruljeyakumar, V.Srinivasan	Investigation on Sisal Fiber Reinforced Polymer Composites	International Innovative Research Journal of Engineering and Technology	4	204-210	2018	
Srinivasan V ArulJeyaKumar A Ashokkumar I	Mechanical Characterization of Chitosan dispersed Poly Lactic Acid/ Basalt fiber Hybrid Composites'	Journal of Advanced Microscopy Research	13	54-60	2018	
Srinivasan V ArulJeyaKumar A Ashokkumar I	Wear study on Basalt, Flax and Hybrid fiber reinforced phenolic	Journal of Advanced Microscopy Research	13	72-78	2018	



DEPARTMENT OF MECHANICAL ENGINEERING
GOVERNMENT COLLEGE OF ENGINEERING-BARGUR

(AUTONOMOUS)

KRISHNAGIRI- 635 104, TAMILNADU

Approved by AICTE, New Delhi and Affiliated by Anna University, Chennai

Visit us: www.gcebargur.ac.in



	composites					
--	------------	--	--	--	--	--

Ashokkumar I Srinivasan.V	Wear Mechanism of Flax/basalt fiber reinforced eco friendly brake friction materials	Tribology: materials, Surfaces and interfaces (Taylor and Francis)	11	47-53	2017	
Ashokkumar I Srinivasan.V	Wear behavior of asbestos-free eco-friendly composites for automobile brake materials	Friction (3.0)	4 (2)	144 -152	2016	
Ashokkumar I Srinivasan.V	Morphological Analysis of Wear Behavior of Flax Fiber Reinforced Composites	Journal of Advanced Microscopy Research	10 (3)	182-187	2015	
Ashokkumar I Srinivasan.V	Tribological Properties of Flax Fiber reinforced composites	Journal of Emerging technology in Mechanical science and Engineering	4(2)	1-7	2015	

Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	DATE	Conference Theme	Venue	Year
Ashokkumar I		National Conference On Recent Advances In Manufacturing And Management	8 th ,9 th February,2008	-	Annamalai University	2008
Ashokkumar I	Recent Advances In Material Science And Manufacturing	National Conference On Wear Behavior Of Hybrid Fibre Reinforced	15 th ,16 th October,2018	-	Annamalai University (Chidambaram)	2018



**DEPARTMENT OF MECHANICAL ENGINEERING
GOVERNMENT COLLEGE OF ENGINEERING-BARGUR**

(AUTONOMOUS)

KRISHNAGIRI- 635 104, TAMILNADU

Approved by AICTE, New Delhi and Affiliated by Anna University, Chennai

Visit us: www.gcebargur.ac.in



	Engineering	Phenolic Composite Materials				
Ashokkumar I	International Conference On Modern Innovation In Nano Technology Science And Engineering Of Materials	Wear Study On Basalt ,Flax And Hybrid Fiber Reinforced Phenolic Composites	1 st ,2 nd , February, 2018	-	Annamalai University (Chidambaram)	2018
Ashokkumar I	International Conference On Mechanical Materials And Manufacturing Systems	Micro Structural Analysis Of Wear Behavior Of Hybrid Fiber Reinforced Polymer Composites	24 th ,25 th , February,2016	-	Sri Sai Ram Engineering College(West Tambaram, Chennai.)	2016
Ashokkumar I	International Conference On Innovation ,Entrepreneurship And Economy For Sustainable Development	Wear Behavior Of Natural Fiber Reinforced Phenolic Composites	10 th ,11 th October,2018	-	Sri Sai Ram Engineering College (West Tambaram, Chennai.)	2018
Ashokkumar I	International Conference On Advanced Materials And Composites	Optimization Of Process Parameters For Diffusion Bonding Of LM-25 AL-SiCp MMCs Using Taguchi Technique	24 th ,25 th ,26 th , October,2007	-	National Institute For Interdisciplinary Science And Technology (Tiruvananthapuram)	2007
Ashokkumar I	International Conference On Innovation, Entrepreneurship And Economy	Chair Person	10 th ,11 th , October,2018	-	Sri Sai Ram Engineering College (West Tambaram, Chennai.)	2018



**DEPARTMENT OF MECHANICAL ENGINEERING
GOVERNMENT COLLEGE OF ENGINEERING-BARGUR**

(AUTONOMOUS)

KRISHNAGIRI- 635 104, TAMILNADU

Approved by AICTE, New Delhi and Affiliated by Anna University, Chennai

Visit us: www.gcebargur.ac.in



	For Sustainable Development					
Ashokkumar I	Workshop	TEQIP Online Workshop On Teaching Effectiveness 4.0	7 th ,8 th ,9 th December, 2020	-	Indian Institute Of Technology-Hyderabad	2020
Ashokkumar I	Center For Materials Joining And Research	Advances In Digital Additive Manufacturing (3D Printing)	4 th ,5 th , January,2019	-	Annamalai University (Chidambara m	2019
Ashokkumar I	Workshop	Train The Trainers On Examination Reforms	17 th ,18 th ,19 th , February, 2020	-	KLE Technical University (Hubbali, Karnataka)	2020
Ashokkumar I	Faculty Development Programme	Pollution Free Manufacturing Of Composite Material And Their Weld ability	24 th , November To 11 th , December, 2010	-	Annamalai University (Chidambara m	2010
Ashokkumar I	Workshop	Professor K.S.SONAC HALAM Memorial XXI Inter-disciplinary Research Methodology Workshop	8 th To 11 th , February, 2011	-	Annamalai University (Chidambara m	2011
Ashokkumar I	Faculty Development Programme	Advantages In Manufacturing Engineering	20 th To 25 th , June, 2011	-	National Institute Of Technology (Calicut)	2011
Ashokkumar I	Workshop	Sustainable Materials: Challenges	4 th ,March, 2011	-	Annamalai University (Chidambara m	2011



DEPARTMENT OF MECHANICAL ENGINEERING
GOVERNMENT COLLEGE OF ENGINEERING-BARGUR

(AUTONOMOUS)

KRISHNAGIRI- 635 104, TAMILNADU

Approved by AICTE, New Delhi and Affiliated by Anna University, Chennai

Visit us: www.gcebargur.ac.in



		And Opportunitie s In Polymer Composites Engineering(SCOPE'2011)				
Ashokkumar I	Faculty Developme nt Programme	In-service Training Programme	5 th To 19 th ,October ,2009	-	Annamalai University (Chidambara m	2009
Ashokkumar I	Faculty Developme nt Programme	ME 6504- Metrology And Measurement s	17 th To 23 rd ,May, 2017	-	Anna University (Chennai)	2017
Ashokkumar I	Quality Improveme nt Programme	NAAC For Quality Excellence In Higher Education	24 th To 28 th , June ,2019	-	National Institute Of Technical Teachers Training And Research (Chennai)	2019
Ashokkumar I	National Seminar	Advances In Material Technology	2 nd ,3 rd , February, 2008	-	Annamalai University (Chidambara m	2008
Ashokkumar I	Faculty Developme nt Programme	Engine Electronics And Alternate Fuels	16 th To 29 th , May, 2011	-	Annamalai University (Chidambara m	2011
Ashokkumar I	Short Term Training Programme	Cyber Security	19 th November To 2 nd December , 2018	-	Annamalai University (Chidambara m)	2018
Ashokkumar I	Workshop	Positive Attitudes And	20 th To 22 nd , August, 2012	-	Annamalai University (Chidambara m)	2012



DEPARTMENT OF MECHANICAL ENGINEERING
GOVERNMENT COLLEGE OF ENGINEERING-BARGUR

(AUTONOMOUS)

KRISHNAGIRI- 635 104, TAMILNADU

Approved by AICTE, New Delhi and Affiliated by Anna University, Chennai

Visit us: www.gcebargur.ac.in



		Constructive Thinking				
Ashokkumar I	IQAC Facilitated Training Programme	Emotional Management	26 th , 27 th , September, 2014	-	Annamalai University (Chidambaram)	2014
Ashokkumar I	Faculty Development Programme	Smart Materials And Fuel Efficient Technologies For Automotives	11 th To 24 th , December, 2017	-	Annamalai University (Chidambaram)	2017
Ashokkumar I	Workshop	Outcome Based Education And NBA Accreditation	28 th , 29 th , 30 th , June, 2018	-	Government College Of Engineering (Bargur)	2018
Ashokkumar I	National Conference On Recent Innovation In Welding And Surface Engineering	Joel Wear Classification In Microendmilling Of Mild Steel Using Acoustic Emission Signal	26 th , 27 th , July, 2019	-	Government College Of Engineering (Bargur)	2019
Ashokkumar I	Workshop Coordinator	Career Guidance Programme	25 th , 26 th , March, 2019	-	Government College Of Engineering (Bargur)	2019
Ashokkumar I	Faculty Development Programme	Recent Trends In Bio And Nano Composites Materials	1 st To 7 th , July, 2019	-	Government College Of Engineering (Bargur)	2019



DEPARTMENT OF MECHANICAL ENGINEERING
GOVERNMENT COLLEGE OF ENGINEERING-BARGUR

(AUTONOMOUS)

KRISHNAGIRI- 635 104, TAMILNADU

Approved by AICTE, New Delhi and Affiliated by Anna University, Chennai

Visit us: www.gcebargur.ac.in



Ashokkumar I	Workshop	Energy Audit In Motors And Mechanical Equipment	30 th ,31 st , January, 2020	-	Government College Of Engineering (Bargur)	2020
Ashokkumar I	Treasurer In National Conference	Recent Advances In Mechanical Sciences And Technology	29 th ,30 th November, 2018		Government College Of Engineering (Bargur)	2018
Ashokkumar I	Faculty Development Programme	Innovation and Research Trends in Nano Material And Surface Coating	1 st , to 7 th , August, 2019		Government College Of Engineering (Bargur)	2019
Ashokkumar I	Faculty Development Programme	Solar Photovoltaic System Design and Applications	10 th to 16 th , July, 2019		Government College Of Engineering (Bargur)	2019
Ashokkumar I	Faculty Development Programme	Recent Trends in Bio and Nano Composite Materials	1 st to 7 th , July, 2019		Government College Of Engineering (Bargur)	2019
Ashokkumar I	Faculty Development Programme	Methodologies and Best Practices of Vibration Analysis in Automotive Industry	13 th to 19 th , June, 2019		Government College Of Engineering (Bargur)	2019
Ashokkumar I	Faculty Development Programme	Creation of Interactive Video Lectures and Use of ICT	20 th , 21 st , June, 2018		Government College Of Engineering (Bargur)	2018



DEPARTMENT OF MECHANICAL ENGINEERING
GOVERNMENT COLLEGE OF ENGINEERING-BARGUR

(AUTONOMOUS)

KRISHNAGIRI- 635 104, TAMILNADU

Approved by AICTE, New Delhi and Affiliated by Anna University, Chennai

Visit us: www.gcebargur.ac.in



		Tools in Teaching				
Ashokkumar I	Workshop	Design and Product Development	8 th ,9 th , April, 2019		Government College Of Engineering (Bargur)	2019
					Government College Of Engineering (Bargur)	
	FDP	Teaching Effectiveness 4.0	07-09,Dec-2020		IIT-Hyderabad	
	FDP	Operations Research for Business and Engineering: Concepts, Applications and Methods	1-18,Dec.2020		IIT-Delhi	
	FDP	Recent Advances in Environmental Bio Technology	05-09,Oct-2020		IIT-Kharagpur	
	FDP	3D Printing and Design	19-23,Oct-2020		IIT-Karnool	
	FDP	Digital Transformation in Teaching Learning Process	16-30,Mar-2020		IIT-Bombay	
	FDP	Materials Processing and Optimization	06-10,July-2020		NITTTR,Chandigarh	
	FDP	Nano Materials and Devices	27-04-20 to 01-05-2020		NITTTR,Chandigarh	
		Fuzzy logic	03-0,May-		Journal of	



DEPARTMENT OF MECHANICAL ENGINEERING
GOVERNMENT COLLEGE OF ENGINEERING-BARGUR

(AUTONOMOUS)

KRISHNAGIRI- 635 104, TAMILNADU

Approved by AICTE, New Delhi and Affiliated by Anna University, Chennai

Visit us: www.gcebargur.ac.in



		and neural network approaches for Engineering solutions	2020		Advanced Engineering Research	
--	--	---	------	--	-------------------------------	--

NPTEL COURSES

- 1.Outcome based pedagogic principles for effective teaching Aug-Sep 2018
- 2.Advanced Composites Jul-Oct 2018
- 3.Friction and wear of materials:Principles and case studies