




JSS Mahavidyapeetha
JSS Academy of Technical Education, Noida
Department of Electronics & Communication Engineering.



FACULTY PROFILE

1. Personal Details

NAME	Dr. ARUN KUMAR G	
DEPARTMENT	ELECTRONICS & COMMUNICATION ENGINEERING	
DESIGNATION	ASSOCIATE PROFESSOR & HoD	
PHONE	8095382275	
EMAIL ID	arunkumarg@jssaten.ac.in	
Date of Joining (JSSATEN)	19-07-2018	

2. Experience

Total Experience in Years: 14	Teaching: 14 Years	Industry: NIL	Research: 06 Years
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3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
B.E.	Electronics and Communication Engineering	2004	STJIT, Ranebennur	VTU, Belagavi
M.Tech.	Digital Communication & Networking	2007	UBDTCE, Davangere	Kuvempu University
Ph.D.	Vibration Control	2016	VTU, Belagavi	VTU, Belagavi
Post Doc.	-	-	-	-

4. Research & Publications

Papers Published in Web of Science indexed Journals	International: 03	National: 00
Papers Published in SCOPUS indexed Journals	International: 14	National: 00
Papers Published in	International: 04	National: 00

other Journals		
Papers Presented in Conferences / Symposium	International: 02	National: 00
Books / Book chapters Published	Name of the book: “Emerging Trends in Engineering and Technology – ETET 2020” Name of the book Chapter: “Fast output sampling feedback control of multi-sensing & actuating systems” Publisher: Magnum Book Publishers, New Delhi (ISBN: 978-81-945125-7-8) Year of Publication: 2020	
	Name of the book: “Recent Developments in Computing, Electronics and Mechanical Sciences” Name of the book Chapter: “Efficient Control Algorithms for Vibration Suppression of Different Types of Structures Using Multiple Sensing Techniques” Publisher: Anvi Book Publishers, New Delhi (ISBN: 978-81-941-281-9-9) Year of Publication: 2020	
	Name of the book: “8051 Microcontroller” Publisher: Gouthami Publications, Shivamoga (ISBN: 9789354199073) Year of Publication: 2020	

5. Research Guidance

PhD Guide? Give field & University	Yes	University: Visvesvaraya Technological University, Belagavi,
PhDs / Projects Guided	Ph.D. Awarded: 02 Guiding: 01	Projects at Master’s Level: 10 Projects at Bachelor’s Level: 30

6. Grants

i. Funds Received (Projects)

Project Name	Grant Amount	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization
-	-	-	-	-

ii. Patents

Sl. No.	Title Details	Details of award of patent / Filed
1	System and method for vibration suppression of different types of structures using multiple sensing techniques using control algorithms	Filed & Published

2	Gaze Controlled Electric Iron Box	Filed &Published
3	Predicting Trading Algorithm Performance	Filed
4	IoT Apparatus for Detecting Quality and Shelf Life of Processed Sea Food	Filed &Published
5	IoT Device for Detecting Naturally Ripen and Chemically Ripen Fruits	Filed &Published

iii. Consultancy

Title of the work	Amount in Rs.	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization
-	-	-	-	-

7. Awards Received

Awards “Best Paper Award”	-
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8. Publications

i. International Journals

Sl. No	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
1	Control of smart structures using output feedback concepts	S.M. Kusagur, Arun Kumar G and T.C. Manjunath	Vidyabharati International Interdisciplinary Research Journal	Vol. 12, Issue 1, Page No.: 63-66, March 2021.	WoS	-	-
2	“Development of a novel blind man’s stick for disabled persons using inbuilt micro-controller”	Dr. Arun Kumar G. , Dr. Spoorti J. Jainar, Shantanu Singh, Shipra Mishra, Vishesh Rai, Dr. T.C. Manjunath	Journal of Gedrag& Organisatie (Netherlands)	Vol. 33, Issue 4, 2020	WOS	-	Thomson Reuters
3	“An overview of nano-robots for curing different	Dr. Arun Kumar G , Ms. Spoorti J. Jainar, Dr. Nagaraja B.G.	Gedrag& amp; Organisatie (Netherlands)	Vol. 33, Issue 3, 2020	WOS	-	Thomson Reuters

	types of diseases in the field of medical applications”	& Dr. T.C.Manjunath					
4	Use of Smart Intelligent Sensor & Actuator Mechanical Materials (PVDF / PZT) in developing MIMO mathematical model of the smart structure and its use to control the active vibrations using discrete sliding mode control theory with output samples	Satvik M. Kusagur, Dr. Arun Kumar G. , Dr. T.C.Manjunath	Journal of Materials Today	Vol. 37, Part 2, 2021, Pages 1592-1602, 11 Aug. 2020.	SCOPUS	-	Elsevier
5	Multivariable Modelling of Intelligent Flexible Mechanical Structures using Smart Materials with FEM, Euler-Bernoulli beam theory, State Space & Multi-Sensor Data Fusion Techniques	Satvik M. Kusagur, Dr. Arun Kumar G. , Dr. T.C.Manjunath	Journal of Materials Today	Vol. 37, Part 2, 2021, Pages 354-362, 7 June 2020.	SCOPUS	-	Elsevier
6	Development of	Satvik M. Kusagur, Dr.	Journal of Materials Today	Vol. 37, Part	SCOPUS	-	Elsevier

	Mathematical Model for Smart Intelligent Flexible Structures using Smart Intelligent Sensor & Actuator Materials using Timoshenko Beam theory & its control using POF	Arun Kumar G., Dr. T.C.Manjunath		2, 2021, Pages 648-655, 21 June 2020			
7	Modelling of smart intelligent materials with PZT & PVDF sensors / actuators to control the active vibrations of flexible aluminum mechanical cantilever beams using Proportional Integral Derivative (PID) techniques	Satvik M. Kusagur, Dr. Arun Kumar G., Dr. T.C.Manjunath	Journal of Materials Today	Vol. 37, Part 2, 2021, Pages 2075-2082, 26 August 2020	SCOPUS	-	Elsevier
8	“Recent Advances in the Design & Development of A Drone Used for Bio-Medical Engineering Applications: Medi-Sky”	DakkaObulesu, Arun Kumar G, B.P. Mishra, Spoorthi J, T.C.Manjunath	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	Vol.-8, Issue-9, 2019	SCOPUS	-	-

9	“4-Point Minimal Pick & Place Trajectory Design in Robotics”	Satvik M. Kusagur, Arun Kumar G , SpoorthiJainar, T.C.Manjunath, Pavithra G	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	Vol.-8, Issue-9, 2019	SCOPUS	-	-
10	Design of Controllers Using Periodic Output Feedback – POF for 1 & 2-Link FMs	Joshi Shubangi Milind, Arun Kumar G , T.C.Manjunath	Journal of Advanced Research in Dynamical & Control Systems	Vol.-11, Special Issue-7, 2019, Pages: 1605-1617	SCOPUS		Elsevier
11	Design of Controllers Using Periodic Output Feedback – POF for 1 & 2-Link FMs	Joshi Shubangi Milind, Arun Kumar G , T.C. Manjunath	Journal of Advanced Research in Dynamical & Control Systems	Vol.-11, Special Issue-7, 2019	SCOPUS	-	Elsevier
12	“Bearing fault diagnosis in IM using perk’s vector approach and J-48 based on vibration signal”	Arun Kumar K.M, Dr. Arun Kumar G , Dr. T.C. Manjunath	Journal of Advanced Research in Dynamical and Control Systems	Vol.-10, 12-Special Issue, 2018	SCOPUS	-	Elsevier
13	“Stator Winding Fault Diagnosis of IM by Park’s Vector Approach and RF based on vibration signal”	Arun Kumar K.M, Dr. Arun Kumar G , Dr. T.C. Manjunath	Journal of Advanced Research in Dynamical and Control Systems	Vol.-10, 12-Special Issue, 2018	SCOPUS	-	-
14	Design of Controllers using Discrete Sliding Mode	Joshi Shubhangi Milind, Dr. Arun Kumar G , Dr.	International Journal of Recent Technology and Engineering (TM) Exploring	Vol.-8 Issue-2S6, August 2019, Page No.: 472 -	SCOPUS	-	-

	Control for 1 & 2-link FMs with output samples	T.C.Manjunath	Innovations,	481.			
15	Design & development of flexible robotic manipulators	Joshi Shubhangi Milind, Dr. T.C.Manjunath, Dr. Arun Kumar G	International Journal of Management, Technology & Engineering	Vol. 9, Issue 6, pp. 777-783, Jun. 2019.	-	-	-
16	PID Control of smart flexible robotic manipulators using set-points	Joshi Shubhangi Milind, Dr. Arun Kumar G , Dr. T.C.Manjunath	Journal of Science, Technology and Development	Vol. 8, Issue 12, Page No.: 878 - 881, Dec. 2019	SCOPUS	-	-
17	Double link (2-link) flexible robotic manipulator (2-DOF) control using proportional – integral – derivative concepts in the work space	Joshi Shubhangi Milind, Dr. Arun Kumar G , Dr. T.C.Manjunath	The International Journal of Analytical & Experimental Modal Analysis	Vol.-12, Issue-12, DECEMBER 2019, Page No.: 1364-1367	-	-	-
18	Single link (1-link) flexible robotic manipulator (1-DOF) control using proportional - integral - derivative concepts in the work space	Joshi Shubhangi Milind, Dr. Arun Kumar G , Dr. T.C.Manjunath	A Journal of Composition Theory	Vol. -12, Issue-12, Page No.: 1364-1367, Dec. 2019	-	-	-
19	Different control strategies to control one	Shubhangi Milind Joshi, Dr. Arun Kumar G , Dr.	Journal of Interdisciplinary Cycle Research	Vol.11, Issue 12, Page No.:1956-	-	-	-

	and two link flexible robotic manipulators for aerospace applications	T.C.Manjunath		1962, December-2019.			
20	Control of n-link flexible robotic manipulators in 3D Euclidean space using PID, POF, FOS & DSMC strategies	Joshi Shubhangi Milind, Dr. Arun Kumar G. , Dr. T.C.Manjunath,	International Journal of Grid and Distributed Computing	Vol.12, Issue 3, Page No.: 199-226, October 2019	SCOPUS	-	-
21	Design of Controllers using Fast Output Sampling Feedback – FOS for 1 & 2-link FMs	Joshi Shubhangi Milind, Dr. Arun Kumar G. , Dr. T.C.Manjunath	Journal of Advanced Science and Technology	Vol. 28, Issue 7, Page No.: 124-135	SCOPUS	-	Elsevier

ii. National Journals

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
-	-	-	-	-	-	-	-

iii. Conferences

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Conference	Volume No. Issue No. Year	WOS / Scopus	Impact Factor	Publisher
1	Hybrid control strategies for vibration suppression of aerospace	Satvik M. Kusagur, Dr. Arun Kumar G. , Dr. T.C.Manjunath	Recent Trends in Electrical, Electronics, Telecommunications, Instrumentation, Medical Electronics	Volume 1, 2020	-	-	-

	structures		Engg. & Physics				
2	Efficient control algorithms for vibration suppression of different types of structures using multiple sensing techniques – A broad overview	Satvik M. Kusagur, Dr. Arun Kumar G., Dr. T.C.Manjunath	Intelligent Control and Computation for Smart Energy and Mechatronic Systems	Volume 1, 2020	-	--	-

iv. Workshops /Conferences Attended

Sl. No.	Name of the workshop / Conference	Organizer	Date
-	-	-	-

v. Workshops / Conference (Organized)

Sl. No.	Name of the workshop / Conference	Organized by	Date	Role
-	-	-	-	-

vi. Conference Attended (those sponsored by AICTE / ISTE/IETE/TEQIP or any other sponsoring body)

Sl. No.	Name of the workshop / Conference	Organizer	Date
1	FDP on PYTHON	JSSATE Noida in Collaboration with Spoken Tutorial Project, IIT Bombay.	22-05-2020 to 05-06-2020

9. Details of NPTEL / COURSERA courses completed

Sl. No.	Name of the subject	Organized by	Date of completion / Award	Grade / Marks
-	-	-	-	-

10. Membership of Professional Bodies:

1. The Indian Society for Technical Education (MISTE - 57660)
2. The Institute of Electronics & Telecommunication Engineers (IETE - 232607)
3. Member of International Associations of Engineers (IAENG - 124743)
4. International Association of Computer Science & Information Technology (IACSIT -

80345338)

11. Any other information you will like to share about your professional experience

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