Faculty Profile

1. Name: Dr. Amit Kumar Choudhary

2. Department: Electrical Engineering

3. Email id: amit.ee@bitsindri.ac.in, amit.rs.eee@iitbhu.ac.in

4. Phone Number: +91 9451640369

5. Office Address: E-14, Dept. of Electrical Engineering,

BIT Sindri, Dhanbad (828123), Jharkhand



6. Qualification:

S. No.	Degree (UG, PG, PhD)	Specialization	Institute
01.	Ph.D.	Control System	IIT (BHU) Varanasi
02.	M.Tech	Control System	NIT, Kurukshetra
03.	B.Tech	Electronics & Instr. Engg.	UPTU, Lucknow

7. Area of Specialization: Model Order Reduction, Control System

8. M.Tech (Guided):

S.No.	Registration No.	Name	Area of Work	Status
01.	19030750024	Vikash	Battery Management System for Electric	Pursing
		Kumar	Vehicles	
			To develop predictive model for the quality	
02.	18030750013	Gaurav	of raw material produced at RMBB and	Passed
		Prasad	sinter produced to ensure stack emission	
			as per norms	

9. Subjects Taught: Non-Linear System, Process Instrumentation, Model Reduction in Control, Optimal Control Theory

10. Professional Experience: 8.11 Years

I) Teaching Experience: 2.11 Years

Sl. No.	Position held	Name of Organization	From	То
1	Assistant Professor	BIT Sindri	15.03.2018	Till Date

II) Research Experience: 6 Years

S1. No.	Position held	Name of Organization	From	То
1.	Research Scholar	IIT (BHU) Varanasi	13.08.2011	16.06.2017

11. Publications:

I) International Journal: 07

S1. No.	Title of the paper	Name of the journal	Vol/No.	Publication Year	Pages
01.	Order reduction techniques via	IETE Journal of	65 (3)	2019	365-
	Routh approximation: a critical	Research			379
	survey				
02.	Order Reduction of z-domain	Circuits, Systems,	38 (3),	2019	1023-
	Interval System using an	and Signal			1038
	Arithmetic Operator	Processing, Springer			
03.	Model order reduction of	Journal of Dynamics	6 (4)	2019	1558-
	discrete-time interval system	and Control			1566
	based on Mikhailov stability				
	criterion				
04.	Model order reduction of	Automatic Control	52 (5)	2018	402-
	discrete-time interval systems	and Computer			411
	by differentiation calculus	Sciences			
05.	Novel arrangement of Routh	Systems Science &	5 (1)	2017	232-
	array for order reduction of z-	Control Engineering			242
	domain uncertain system				
06.	Revisiting approximation	IFAC-PaperOnline	49 (1)	2016	241-
	techniques to reduce order of				246
	interval system				
07.	Application of Various Order	IFAC-PaperOnline	48 (30)	2015	185-
	Reduction Methodologies over				190
	Power System Components				

II) International Conference: 07

S. No.	Title of the paper	Conference Detail	Publication Year
01.	A Novel Technique for Order	4th SICE Int. Symp. on Control	2018
	Reduction of Discrete-Time Interval	Systems (ISCS), at Setagaya Campus,	
	System	Tokyo City University, Tokyo, Japan,	
		March 9-11, 2018.	
02.	Simplification of Uncertain System	SIAM Conf. on Uncertainty	2016
	to Their Approximate Model	Quantification (UQ16), SwissTech	
		Convention Center, EPFL Campus,	
		Lausanne, Switzerland, April 5-8.	

03.	Revisiting approximation	ACODS, NIT Tiruchirappalli, Feb 1-5	2016
	techniques to reduce order of		
	interval system		
04.	Order Reduction of Uncertain	Michael Faraday IET International	2015
	System using the Advantages of	Summit (MFIIS-2015), Kolkata, India,	
	Two Varied Approximations	pp. 49-51, Sept. 12-13	
05.	Application of Various Order	9th IFAC Symposium on Control of	2015
	Reduction Methodologies over	Power and Energy Systems, IIT Delhi,	
	Power System Components	India, Dec 9-11	
06.	Direct Truncation Method for Order	IEEE INDICON-2013, IIT (Bombay),	2013
	Reduction of Discrete Interval	India, pp. 1-4, Dec.13-15	
	System		
07.	Gamma Delta Approximation for	Inter. Conference on Advances in	2013
	Reduction of Discrete Interval	Recent Technologies in Electrical and	
	System	Electronics (ARTEE-13), Bangalore,	
		India, Elsevier, pp. 91-94, Sept. 20-	
		21	

12. Conference/ Workshop/Seminar/ Organized: 01

S. No.	Title of Seminar / Conferences / Short – term Courses	Name of Coordinator	Funding / Sponsoring Agency	Date of Seminar / Conferences / Short – term Courses	No. of Participants
01.	"Challenges in Integration	Dr. D. K.			
	of Large-Scale Renewables	Tanti;	TEQIP III	27 th August 2020	175
	in Indian Power System" A	Dr. Amit Kr.	1		27.0
	Sustainable Solution using	Choudhary;			
	Artificial Intelligence	Prof. Praveen			
		Kumar			

13. Symposium/ Workshop/Seminar/ Attended: 48

S.N	Title of Symposium/Workshop/	Date	Organizing Institute
	Seminar/ Short-term Courses/		
	Webinar /NPTEL etc.		
1.	5 days' workshop Current Industrial	Nov. 02 - 06, 2020	BIT Sindri
	Alacrity and Career Opportunity in		
	the Field of Mechanical Engineering		

2.	Fractional Order Robust Control System Design (Series-I)	Oct. 26–31, 2020	Department of Electrical and Electronics Engg., Vardhaman College Of Engg. Shamshabad, Hyderabad
3.	Faculty Development Programme on Python 3.4.3	Oct. 05– 16, 2020	B.I.T Sindri, Dhanbad and Spoken Tutorial Project, IIT Bombay
4.	Faculty Development Program cum Workshop Sustainable Environmental Engineering Practices (SEEP 2020)	Sep. 21- 25, 2020	Dept. of Civil Engg., National Institute of Technology Rourkela, India
5.	STTP on Applications of MATLAB in Mathematics, Science and Engineering	15-17 Sept., 2020	Dept. of Electrical Engineering, St. Vincent Pallotti College of Engg, & Tech., Nagpur and IE (I), Nagpur Local Chapter
6.	Indigenous Instrumentation for Nano- Technology (IINT-2020)	Sep. 11, 2020	Dept. of Metallurgical Engg., BIT Sindri, Dhanbad, JHD
7.	e-FDP on "Renewable Energy for Sustainable Development: Opportunities and Challenges"	Sep. 8-12, 2020	Department of Electrical and Electronics Engineering, Govt. Engineering College, Raipur.
8.	Online Workshop on The Art Of Technical Writing	Aug. 7- 8, 2020	Dept. of Mechanical Engg., Jyothi Engg. College, Thrissur in association with ISTE -JECC chapter
9.	International Workshop on Thermal Management Of Electronics	Jul. 27- 28, 2020	Dept. of Mechanical Engg., Jyothi Engineering college, Thrissur in Association with ISTE JECC & Mechanical Engg. students, JECC
10.	National Webinar on SPACE - 2.0	Jul. 25, 2020	Department of Science, St. Joseph's College of Engg., OMR, Chennai - 600 119
11.	Recent Research Trends in Electrical Engineering	Jun. 14- Jul. 18 2020	Gautam Buddha University, Greater Noida, India
12.	One Day Faculty Development Programme on Free Open Source Tools for Education and Research	Jul. 07, 2020	BIT Sindri, Dhanbad and FOSSEE, IIT Bombay

10	EDD for Engineering College	I 00 0000	Il-al-land Education Caid
13.	FDP for Engineering Colleges on	Jun. 29, 2020	Jharkhand Education Grid,
	Virtual Labs		Rashtriya Uchchatar Shiksha
			Abhiyan Jharkhand, JUT, RNC
			and BIT Sindri, in association
			with NIT Karnataka, Surathkal
14.	Electric Vehicles: New Trends and	Jun. 22-26, 2020	Department of Electrical &
	Technologies		Electronics Engg., ABES Engg.
			College, Gzb
15.	E-Mobility and Solar Charging for E-	Jun. 24, 2020	Dept. of Electrical Engg.,
	Mobility		Chouksey Group of Colleges,
			Bilaspur, Chhattisgarh
16.	A Two Day Workshop on Developing	Jun. 18-19, 2020	Dept. of Computer Science &
	an E-Content		Engg., Vaagdevi Engineering
			College, Bollikunta, Warangal.
17.	4-Days e-FDP on "Role of Artificial	Jun. 17-20, 2020.	Department of Electrical Engg,
	Intelligence in Future Microgrid		Silicon Institute of Technology,
	Control"		Sambalpur, Odisha
18.	One Week FDP on eSim-A Free and	Jun. 15- 19, 2020.	Department of EEE in
	Open Source EDA Tool		association with Spoken
			Tutorial IIT Bombay, Pandit
			Madan Mohan Malaviya
			National Mission on Teachers
			and Teaching (PMMMNMTT)
19.	Outcome Based Education Software	Jun. 11, 2020	Vmedulife software services
20	Basics of Fire and Safety Engineering	Jun. 10, 2020	Department of Fire Technology
	Basics of the and safety Engineering	ouii. 10, 2020	and Safety Engineering, Noorul
			Islam Centre for Higher
			Education, Kanyakumari,
			Tamil Nadu
0.1	Consist Foreign Collections to Desert	I 06 0000	
21.	Smart Energy Solutions to Boost	Jun. 06, 2020	Dept. of Electrical Engg.,
	Power Sector Economy During		Teerthanker Mahaveer
	Pandemic Maria Maria	I 5 0000	University Moradabad
22.	How to Get More Marks in	Jun. 5, 2020	Amity School of Engg and
	Mathematics		Tech. (ASET), Amity Univ. MP
			(AUMP), Gwalior
23.	Energy Regulations Webinar:	May 24, 2020	IEEE Uttar Pradesh Section
	Challenges to Energy Regulations		(India Council)

	beyond Corona 2020		
24.	Autonomy and Control for Robotic	May 15, 2020	ELMAX Systems & Solutions
	Systems using MATLAB		
25.	Response Of Indian Power Sector	Apr. 23, 2020	Dept. Electrical Engg., Univ.
	During Covid-19 Lockdown		School of Engg., Gautam
			Buddha Univ., Gr. Noida, U.P.
26.	Digital Transformation in Teaching	Apr. 06-22, 2020	TEQIP Online Certification &
	Learning Process		Swayam & IIT Bombay
27.	Intl. Symp. On 5G & Beyond for	Feb. 08-09, 2020	BIT, Sindri and IIT (ISM)
	Rural Upliftment		Dhanbad
28.	One week FDP on ICT Tools for	Jan. 13-17, 2020	Jointly organized by
	Teaching, Learning Process &		Electronics and ICT Academics
	Institutes		at BIT Sindri
29.	Five Days Workshop on Internet of	Oct. 14-18, 2019	BIT Sindri
	Things (IoT)		
30.	One Week FDP on Wireless and	Dec. 03-07, 2018	IIT Guwahati
	Mobile Communication	,	
31.	Recent Advances on Passive and	Jun. 25-30, 2018	Dept. of Electronics Engg., IIT
	Active Components		(BHU) Varanasi
32.	SICE 4th International Symposium	Mar. 9-11, 2018	Tokyo City University,
	on Control Systems (SICE-ISCS 2018)		Setagaya Campus, Tokyo,
			Japan
33.	Faculty Induction Workshop	Jan 29 - Feb 02,	TEQIP Office, IIT Indore, Indore
		2018	
34.	SIAM Conference on Uncertainty	Apr. 5-8, 2016	EPFL Campus, Lausanne,
	Quantification (UQ16), SwissTech		Switzerland
	Convention Center		
35.	Fourth International Conference on	Feb. 1-5, 2016	NIT Tiruchirappalli, India,
	Advances in Control and		
	Optimization Of Dynamical Systems		
26	(ACODS 2016) 9th IFAC Sym. on Control of Power	Dec. 9-11, 2015	IIT Delhi, India,
30.	and Energy Systems (CPES-15)	Dec. 9-11, 2013	iii Deiii, iiiuia,
37.		Sept. 12-13 2015	Kolkata University, India
	(MFIIS-2015)	.50p. 12 15, 2010	
38.	One day international workshop on	Sept. 11, 2015	Dept. of Physiscs, University of
	1	· ,	, , , , , , , , , , , , , , , , , , ,

	"How to do a Good PhD"		Calcultta and IET UK Kolkata
			Local Network
39.	IEEE Authorship Workshop on	Aug. 11, 2014	IIT, Delhi, India.
40.	Training on Indusoft SCADA	Jun. 23-24, 2014	Control and System (I) Pvt. Ltd.
			at Dept. of Elect. Engineering,
			IIT(BHU) Varanasi
41.	INDICON-2013, (IEEE Bombay	Dec. 13-15, 2013	IIT Bombay
	Section)		
42.	International Conference on Advances	Sep. 20-21, 2013	Bangalore
	in Recent Technologies in Electrical		
	and Electronics- ARTEE- 2013		
43.	Workshop on Lab view	Mar. 08, 2013	Dept. of Elect. Engineering,
			IIT(BHU) Varanasi
44.	National Power Systems Conference,	Dec. 12-14, 2012	Dept. of Elect. Engineering,
	NPSC-2012		IIT(BHU) Varanasi
45.	Course on "Control System Design	Dec. 4-8, 2012	Dept. of Avionics, Indian
	(CSD-2012)"		Institute of Space Science and
			Technology (IIST), Valiamala,
			Kerala.
46.	Advanced Workshop on Mathematical	Nov. 21-30, 2012	Dept. of Mathematics, IIT,
	Theory of Control and Numerics		Bombay and Dept. of
	(MTCN-2012)		Mathematics, Indian Inst. of
			Space Science and Tech. (IIST),
			Valiamala, Kerala.
47.	CSIR sponsored IX Control	Nov. 16-17, 2012	Manipal Inst. of Technology,
	Instrumentation System conference		Manipal University, Manipal,
	CISCON-2013(A National Conference)		
48.	SERC School on Adaptive Control of	Oct. 5-9, 2011	Department of Electrical
	Nonlinear Systems Using Fuzzy and		Engineering, Indian Institute of
	Neural Networks		Technology, Kanpur.

14. Administrative Position Held:

S. No.	Position Held	From (date/month/year)	
01.	Asst. Prof. In Charge, Examination Section, BIT Sindri	17-Nov2020	
02.	Member in Nano Technology Centre, BIT Sindri	28-Sep2020	

03.	Prof. In Charge, Department Library 06-Aug2019	
04.	Member in institute NAAC committee	02-Aug2019
05.	Department GATE Coordinator 24-Jun2019	
06.	Member Secretary in Departmental Research Committee for 07-Jun2019	
	PG candidates	
07.	PG Coordinator, Dept. of Electrical Engg., BIT Sindri	16- Feb2019

15. Award / Recognition Bestowed on Faculty (State / National / International)

S. No	Award/ Recognition	Year	
01.	IETE Jury under the Best General Interest Paper for the IETE-Gowri Memorial		
	Award-2020 for "Order Reduction Techniques via Routh Approximation: A Critical		
	Survey" published in IETE Journal of Research, May-June 2019 issue.		
02.	Received CSIR Foreign Travel Grant to present a research paper in Japan	2018	
03.	Best Volunteer at 3rd IEEE UP Section International Conference on Electrical,	2016	
	Computer and Electronics Engineering at Indian Institute of Technology (Banaras		
	Hindu University) Varanasi, Varanasi, U.P., India, Dec. 9-11, 2016.		
04.	Selected for the Society of Industrial and Applied Mathematics (SIAM) Travel	2016	
	Support for attending the SIAM Conference on Uncertainty Quantification (UQ16),		
	at SwissTech Convention Center, EPFL Campus, Lausanne, Switzerland, April 5-		
	8, 2016.		

16. Additional Activities

S. No.	Activity Arena	Organized at	Date	Acted as
01.	Nav Ujjwal e-innovation	Model Club, BIT Sindri	Aug. 4-6,2020	Judge
	Hackathon			
02.	6th Students' Conference on	Dept. of Electrical Engg.,	Jul. 12, 2020	Reviewer
	Engg. & Systems (SCES)	MNNIT, Allahabd, Prayagraj		
03.	Recent Development on	Dept. of Electrical &	Oct. 10-11,	Reviewer
	Control Automation & Power	Electronics Engg., AMITY	2019	
	Engg. (RDCAPE 2019)	School of Engg. & Tech., UP		

17. Members of Professional Bodies:

S. No.	Professional Body	Membership Number
01.	ACDOS: Automatic Control & Dynamic Optimization Society:	
	An Indian NMO of IFAC (International Federation of Automatic	NA
	Control)	

02.	IDES: Institute of Doctors, Engineers and Scientists	1442
03.	IEEE Control System Society	90759151
04.	IET: Institution of Engineering and Technology 1100322629	
05.	SIAM: Society for Industrial and Applied Mathematics	020103848-0

18. Personal Profile:

Father's Name	:	Mr. Ram Bihari Choudhary
Mother's Name	:	Mrs. Kashmira Devi
Date of birth	:	08th September 1984
Gender	:	Male
Nationality	:	Indian
Languages Known	:	Hindi, English
Permanent Address	:	s/o Shri. Ram Bihari Choudhary, Village-Koiridih, PO- Naur, PS- Nabinagar, Dist- Aurangabad, Bihar (824303).
Correspondence Address	:	Qtr. No.: O-78, Professor Colony, B-Zone Near Hostel No.: 14, BIT Sindri, Dhanbad, Jharkhand (828123)

Declaration:

I hereby declare that the above furnished particulars are true and the best of my knowledge and belief

Place: BIT, Sindri, Dhanbad

(Dr. Amit Kumar Choudhary)

Kchandhaly.