

Curriculum Vitae

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Specialization:	Control Systems & Instrumentation																											
Research Interest:	Reduced order modelling & controller design for Process control and Power system applications. Keywords: PID, Fractional PID, ADRC, SMC, LFC, AVR, MIMO Process.																											
Experience:	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Organization</th> <th style="width: 30%;">Position</th> <th style="width: 20%;">From</th> <th style="width: 20%;">To</th> </tr> </thead> <tbody> <tr> <td rowspan="7" style="text-align: center; vertical-align: middle;">Indian Institute of Technology (ISM) Dhanbad</td> <td style="text-align: center;">Lecturer</td> <td style="text-align: center;">25-09-1995</td> <td style="text-align: center;">21-02-2000</td> </tr> <tr> <td style="text-align: center;">Assistant Professor</td> <td style="text-align: center;">22-02-2000</td> <td style="text-align: center;">31-12-2005</td> </tr> <tr> <td style="text-align: center;">Associate Professor</td> <td style="text-align: center;">01-01-2006</td> <td style="text-align: center;">31-12-2009</td> </tr> <tr> <td style="text-align: center;">Professor</td> <td style="text-align: center;">01-01-2010</td> <td style="text-align: center;">Continuing</td> </tr> <tr> <td style="text-align: center;">Head of the Department</td> <td style="text-align: center;">28-02-2011</td> <td style="text-align: center;">25-02-2014</td> </tr> <tr> <td style="text-align: center;">Head of the Department (Acting)</td> <td style="text-align: center;">20-11-2018</td> <td style="text-align: center;">23-12-2018</td> </tr> <tr> <td style="text-align: center;">Associate Dean (Acad)</td> <td style="text-align: center;">18-04-2017</td> <td style="text-align: center;">20-09-2018</td> </tr> </tbody> </table>		Organization	Position	From	To	Indian Institute of Technology (ISM) Dhanbad	Lecturer	25-09-1995	21-02-2000	Assistant Professor	22-02-2000	31-12-2005	Associate Professor	01-01-2006	31-12-2009	Professor	01-01-2010	Continuing	Head of the Department	28-02-2011	25-02-2014	Head of the Department (Acting)	20-11-2018	23-12-2018	Associate Dean (Acad)	18-04-2017	20-09-2018
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R&D Project:	“Computer aided design of an electro-hydraulically controlled hydrostatic transmission system for mining equipment”, Sponsored by UGC, 2000-2003. (Co-PI) “Computer controlled energy efficient LSHT output hydrostatic drive for mining equipment using proportional solenoid valve technology”, sponsored by MHRD 2003-2006. (Co-PI) “Design and development of energy efficient hydrostatic transmission system for off-road vehicle using two motor summation drive”, sponsored by UGC, 2009-2012. (Co-PI) “Development of a load-frequency control system with a PID controller designed through a frequency-domain matching method” sponsored by UGC, 2013-2016. (PI)	
Ph.D. Guidance:	Awarded: “PID controller design for linear time-invariant industrial systems”. “Damping controller design for mitigating the small-signal oscillations in power systems using frequency response matching technique”. “Frequency domain reference model based PI/PID controller design for linear time invariant SISO and MIMO industrial systems”. “Development of low-order controller design method for LTI systems using model matching techniques”. Ongoing: “Load frequency control in power system”. “Load frequency control with communication delay and cyber attack”.	
Teaching In Monsoon 2025-26	Advanced Control Systems (NEEC501) Advanced Control Systems Lab (NEEC506)	
Subjects Taught:	For Electrical students (UG): •Control Systems I •Control Systems II •Digital Signal Processing •Signals and Systems •Electrical Technology •Simulation Lab •Electrical Technology Lab For Electrical students (PG): •Advanced Control System •Industrial Instrumentation •Advanced Control System Lab	For Non-Electrical students: •Electrical Technology •Circuits and Measurements •Measurements & Instrumentation •Mechanical Measurements •Electrical Machines and Control •Electrical Drives •Applied Electrical Engineering •Electrical Power Utilization

Laboratory Development:	Simulation Lab, Control Systems Lab, Measurement Lab, Instrumentation Lab, Circuit Lab, Electrical Technology Lab
Other Activities	Chairperson, Senate Undergraduate Committee (SUGC): 16-09-2025 to 30-06-2027
Other Activities Accomplished	Associate Dean (Academic-Postgraduate) Member, Building and Works Committee Member, M. Tech. Admission Committee, IIT(ISM) Chairman, M. Tech. Admission Committee, IIT(ISM) Member, JAM, IIT(ISM) In-Charge, JAM, IIT(ISM) In-Charge of GATE-JAM Exam, IIT(ISM) Member, Electrical Installation Committee Chairman, Committee for ROW for drawing DVC Power Line to IIT(ISM) In-Charge, Telephone Systems, Member, Core Course Committee Hostel Warden