

Name: Dr. Anup Kumar Das

Department: Electronics and Communication Engineering

Contact Nos.: 9434679697

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Qualifications: M. Tech., Ph. D.

Designation: Assistant Professor



VIDWAN ID: <https://vidwan.inflibnet.ac.in/profile/186416>

Experience (Teaching / Research / Industry, in years): 1/10/15

Date of Joining at the Present Institution: 06-02-2004

Examinations Cleared: N.A.

Qualifications Summary (Reverse chronological order):

Degree	Institute	From - To	Subjects
PhD	National Institute of Technology Durgapur	2014-2020	Physics (Electronics)
M.Tech.	National Institute of Technology Durgapur	2011-2013	Adv. Mat. Sci.& Tech.
M. Sc.	Acharya Nagarjuna University Guntur	2008-2010	Physics (Electronics)

Experience Summary (In chronological order):

Designation Organization Date From - Date To

Assistant Professor Dr. B. C. Roy Engineering college, 01-12-2020 to Present

Visiting Faculty Dr. B. C. Roy Engineering college, 01-07-2020 to 30-11-2020

Senior Technical Assistant Dr. B. C. Roy Engineering college, 06-02-2004 to 30-11-2020

Technical Supervisor Bakreshwar Thermal Power Project 3 months

Specialization/Research Interest:

Nonlinear dynamics, Cryptography, Chaos synchronization, Secure Communication

Awards & Recognitions

National Advisory Board member of SUSCOM 2021-Sri Balaji College of Engineering & Technology, Jaipur, Rajasthan, India, International Conference on Sustainable Computing.

Reviewer of 'International journal of computers and applications' - Taylor & Francis Group.

Best paper/ scholarship/Position in university exam / awards while at industry/ other organizations etc.
N.A.

Courses taught:

B.Tech:

Theory: Electromagnetic Theory, Power Electronics

Practical: Process control, Control Theory, Microprocessor, Industrial Instrumentation, Measurement, Sensor and Transducer, Instrumentation and Control Design, Telemetry and Remote control, Analog Electronics, Digital Electronics, EM wave Laboratory etc.

Online Mode of Teaching:

<https://mail.google.com/mail/u/0/?tab=rm&ogbl#search/em+theory/KtbxLxGnPwKtMhwkZKFqwZvQSNRjZCmTdB>

<https://mail.google.com/mail/u/0/?tab=rm&ogbl#search/em+theory/KtbxLwghhxjxDRbQznFHvHZBDpMXdGffL>

<https://mail.google.com/mail/u/0/?tab=rm&ogbl#search/em+theory/QgrcJHsTgGClkgVNSZPQPlpMJXtPPgjCsG>

Online teaching is conducted via Google meet.

Publications:

Journal:

1. A. K. Das, S. Hajra and M. K. Mandal, "RGB Image encryption using microcontroller ATMEGA 32", *Microsystem Technologies*, online June 2018. <https://doi.org/10.1007/s00542-018-3980-5> ISSN:0946-7076
2. A. K. Das and M. K. Mandal, "Secure communication using Microcontroller ATMEGA 16", *Elixir International Journal*, **122**, 51685-51689, September 2018, ISSN:2229-712X
3. A. K. Das and M. K. Mandal, "Design of Master-Slave Coupling for Chaotic synchronization of Maps", *International Journal of Recent Technology and Engineering* **7**, 819-825, March 2019. (ISSN:2277-3878)
4. A. K. Das and M. K. Mandal, "Chaos-based Controlled System using Discrete Map", *Recent Patents on Computer Science*, DOI:10.2174/2213275912666190819104221. ISSN (Print):2666-2558 ISSN (Online):2666-25

5. A. K. Das and M. K. Mandal, "Experimental Realization of 2D Chaos Synchronization using Microcontroller ATMEGA 16 and Applied in a Secure PIN Transaction", *International Journal of Simulation--Systems, Science & Technology*, DOI:10.5013/IJSSST.a.20.01.21, ISSN: 1473-804x online 1473-8031 print.

Conference:

1. A. K. Das and M. K. Mandal, "Experimental Realization of 3D Chaos Synchronization using Microcontroller ATMEGA 16", *IEEE 3rd Int. Conf. on Electronics and Communication Systems (ICECS-2016)*, February 25-26, 2016, Vol. 6, pp. 2987-2992. Karpagam College of Engineering, Coimbatore-641032. Tamil Nadu. ISBN:978-1-4673-7832-1/16
2. M. K. Mandal and A. K. Das, "Chaos based colour image encryption using microcontroller ATMEGA 32", *3rd Int. Conf. on Nano-electronics, Circuits and Communication Systems (NCCS-2017)*, November 11-12, 2017, PP. 281-287, Springer, ARTTC BSNL Ranchi-835217. Jharkhand. Print ISBN: 978-981-13-0775-1 Electronic ISBN: 978-981-13-0776-8.
3. A. K. Das and M. K. Mandal, "FPGA Based Chaotic Cryptosystem", *2nd Int. Conf. on Advance Computational and Communication Paradigms (ICACCP-2019)*, February 25-28, 2019, Sikkim Manipal Institute of Technology, Sikkim. ISBN: 978-1-5386-7989-0
4. A. K. Das and M. K. Mandal, "Chaos based control system", *Int. Conf. on Sustainable Computing in Science, Technology and Management (SUSCOM-2019)*, February 26-28, 2019, Amity University Rajasthan, Jaipur.
5. A. K. Das and M. K. Mandal, "Chaos and Cryptography", *Int. Conf. on Recent Developments in nonlinear dynamics and its application (CRDNDA-18)*, March 12-14, 2019, Durgapur Government college, Durgapur.
6. A. K. Das, H.Mondol and M. K. Mandal, "Colour Image Encryption scheme based on combined chaotic maps", *Int. Conf. on Recent Developments in nonlinear dynamics and its application* March-2020, ISBN: 978-81-944611-1-1, Durgapur Government college, Durgapur.

Book Chapter: N. A.

Supervision of Ph.D/M.Tech / B.Tech Projects:

B. Tech. 7th Sem project running.

Projects: N.A.

Invited Lectures:

Topic of the lecture, Name of the event, organized by, Date: N.A.

Participation in seminar/conference/symposium/workshop/discussion meeting

Name of the Event	Duration	Year	Organized by
<i>IEEE 3rd Int. Conf. on Electronics and Communication Systems (ICECS-2016)</i>	February 25-26,	2016	Karpagam College of Engineering, Coimbatore-641032. Tamil Nadu.
<i>3rd Int. Conf. on Nano-electronics, Circuits and Communication Systems (NCCS-2017)</i>	November 11-12	2017	ARTTC BSNL Ranchi-835217. Jharkhand.
<i>2nd Int. Conf. on Advance Computational and Communication Paradigms (ICACCP-2019)</i>	February 25-28	2019	Sikkim Manipal Institute of Technology, Sikkim.
<i>Int. Conf. on Sustainable Computing in Science, Technology and Management (SUSCOM-2019)</i>	February 26-28	2019	Amity University Rajasthan, Jaipur.
<i>Int. Conf. on Recent Developments in nonlinear dynamics and its application (CRDNDA-18)</i>	March 12-14	2019	Durgapur Government college, Durgapur.
<i>”, Int. Conf. on Recent Developments in nonlinear dynamics and its application</i>	March	2020	Durgapur Government college, Durgapur.
Trends of Modern Communication Engineering Systems	18/9/2020 to 20/9/2020	2020	Electronics and Communication Engineering Department, BCREC and IEEE student branch BCREC.

Participation in faculty development programmes

Name of the faculty development programme	Online / Face-to Face	From Date - To Date	Duration	Organized by
Artificial Intelligence using Python	Online	14.09.20 to 19.09.20	6 days	Department of Computer Science & Technology of

				Dr. B. C. Roy Polytechnic
Moodle- An ICT Based learning Management system (LMS) To Conquer The Academic lock down	Online	April 21 to April 25, 2020	5 days	Dr. B. C. Roy Engineering College, Durgapur.
Semiconductor Device, Microwave and Renewable Energy (SDMRE-2021)	Online	21-25 September,2021.	5 days	Department of ECE, Asansol Engineering College.
3D Printing and Design	Online	17-21 August, 2021.	5 days	Dr. B. C. Roy Engineering College, Durgapur.

Organization of events (Dr. B. C. Roy Engineering College)

Name of the event, Date, Year : N.A.

Participation in administrative committees (selected)

Name of the Post	Name of the Committee	Year
Member	Institute Academic Council	2019
Member	NAAC Core Committee	2019
Member	AICTE IDEA LAB	2021

Project Ideas Submitted to Govt. Agencies/ On-going Projects / Research Ideas under preparation & execution: N. A.

Membership of professional bodies: IEEE, IETE, IEL, CSI, MGMI etc.

International Association of Engineers (IAENG)