

Brief Resume

1. General Information:

Name	SASWAT CHAKRABARTI
Date of Birth	05 th September, 1963
Correspondence Address	GS SANYAL SCHOOL OF TELECOMMUNICATIONS, IIT KHARAGPUR, PO. KHARAGPUR TECHNOLOGY, PIN. 721302, INDIA
Phone No.	Mobile No.: +91-9775030765; Landline No.: +91-3222-283900
Email	saswat@ece.iitkgp.ac.in

2. Educational Qualifications:

S. No.	Qualification	University/ Institution	Year	Subjects / Topics	% of Marks obtained	Distinctions etc.
1.	PhD in Engineering	Dept. of E&ECE, IIT Kharagpur	1992	Concatenated Error Control Coding	Not Awarded	Not Awarded
2.	M. Tech	Dept. of E&ECE, IIT Kharagpur	1985	Satellite Communications & Remote Sensing Engg.	9.21/10.0 CGPA	Not Awarded
3.	B.E (Hons.)	Jadavpur University	1984	Electronics & Tele-Communication Engg.	83.5%	1 st Class, Hons.
4.	Higher Sec. Examination	WB Council for HS Education	1980	PCM, English, Bengali	78.5%	1 st Div.; 8 th Rank in WB
5.	Secondary Examination	WB Board of Sec. Education	1978	Eng., Beng., Sans., Math., Phy Sc., Life Sc., Hist., Geo.	85.7%	1 st Div.; 9 th Rank in West Bengal

3. Academic / Teaching Experience:

S. No.	Post	Organization / University	Duration	
			From (Date)	To (Date)
1.	Professor	GSSST, IIT Kharagpur	13.04.2007	Till date
2.	Associate Professor	GSSST, IIT Kharagpur	13.08.2000	12.04.2007
3.	Assistant Professor	Dept. of E&ECE, IIT Kharagpur	01.01.1995	12.08.2000
4.	Lecturer	Dept. of E&ECE, IIT Kharagpur	15.01. 1991	31.12.1994

4. Administrative Experience:

S. No.	Post	Organization / University	Duration		Experience
			From	To	
1.	Dean, Faculty of Bio Technology & Bio Science	IIT Kharagpur	02.11.2020	31.07.2023	02 Yrs 09 Months
2.	Head, GS Sanyal School of Telecommunications	IIT Kharagpur	01.04.2006	30.06.2010	04 Yrs 03 Months
		IIT Kharagpur	01.04.2012	31.03.2018	06 Yrs
3.	HAL Chair Professor	IIT Kharagpur	March,	February,	03 Years

			2020	2023	
4.	Warden	Sir AM Hall of Residence, IIT Kharagpur	October, 2007	September, 2009	02 Years
5.	Professor-in Charge	Vodafone-IIT Kgp Centre of Excellence, IIT Kharagpur	01.04.2012	15.10.2015	03Yrs 06 Months
6.	Member of Academic Council	Member of Academic Council, Member Board of Management, KIIT University, Bhubaneswar	06.10.2015	Till date	08 Yrs 06 Months

5. Industrial / Professional Experience:

Designation	Organization	From	To	Nature of Responsibilities
Director & Principal	Haryana Instt. of Engg. & Tech., Kaithal	05.07.10	10.12.10	Overall academic administration of a private engineering institute
Asst. General Manager (R&D)	R&D Div., HFCL, New Delhi, India	21.12.98	10.12.99	R&D in Telecomm.
Pipeline Eng (Telecom & Instruments)	Indian Oil Corporation Ltd	03.02.86	31.08.88	Operation & Maintenance of UHF Telecom. Links

6. Theory Subjects taught:

At undergraduate (B.Tech) level: (a) Digital Communications, (b) Analogue Communications, (c) Basic Electronics, (d) Adv. Digital Comm. Techniques, (e) Theory of Signals & Systems, (f) Error Control Coding, (g) Introduction to Wireless Communications

At the postgraduate (M.Tech /PGDTNM/ MS/ PhD) level: (a) Mobile Communications & Fading, (b) Satellite Communications System, (c) Information Theory & Coding, (d) Teletraffic Engineering, (e) Telecommunication Network Management, (f) Linear Algebra & Error Control Techniques, (g) Communication Services and Applications

7. Formulation of academic programs:

S. No.	Nomenclature of Innovative Academic Programmes formulated	Date of Approval by Senate	Year of Introduction
1.	2-Year M. Tech programme in Wireless Communications and Networks	26.10.2016	2017
2.	1- Year PG Diploma in Telecomm Network Management (PGDTNM)	May 2006	2006

8. Courseware Development

Courseware	Description	Target Group
Video Lecture Series	Series of 40 Lecture Hours on 'Digital Communications'	Undergraduate students in the discipline of Electronics & Comm. Engineering
Web Course	On 'Digital Communications' under the NPTEL Project, Ministry of HRD, Govt. of India	Teachers and Undergraduate students in the discipline of Electronics & Comm. Engineering

9. Research Guidance

Broad Area of Research: Wireless Digital Communications

Level of Guidance	Degree	Degree Awarded on Completion	Submitted	In progress
Doctoral level	PhD in Engineering	20	01	02
Masters	MS (by Research)	11	-	--

10. Guidance of Academic Projects:

Level of Guidance	Program	Number Completed	Number in progress
Masters	M.Tech	70	04
Bachelors	B.Tech	65	--

11. Publications:

Publications	Published
In referred journals	56
In proceedings of seminars/ conferences	136

12. Sponsored Research & Industrial Consultancy:

Type of Project	Completed	Ongoing
Sponsored	15	--
Consultancy	12	01

13. Important MOU-s formulated for academic collaborations:

S. No.	MoU-s formulated	Name of Agencies / Departments involved	Year of MOU
1.	TCOE	Vodafone India, Dept. of Telecom, IIT Kgp	2007
2.	TSDSI (Founding member)	Dept. of Telecommunications	2014

14. Honours / Awards:

S. No.	Name of Award	Awarded by	Year of Award
1.	Best paper award of "Jalavigyan Puraskar - 2017" for 'Real-time OGC compliant online data monitoring and acquisition network for management of hydro-meteorological hazards' by Subhrasankha Dey, Nilanjana Bhattacharya, Saswat Chakrabarti & Dhruvajyoti Sen; ISH Journal of Hydraulic Engineering, 23 (2), 157-166, 2017	Hydro-2017 conference (Indian Society of Hydraulics)	2017
2.	Best Paper Award, for the paper '1V CMOS Instrumentation Amplifier with High DC Electrode Offset Cancellation for ECG Acquisition Systems,' by C Nanda, J Mukhopadhyay, D Mandal, S. Chakrabarti; Proc. 2010 IEEE Students' Technology Symposium	IEEE Students' Technology Symposium	2010
3.	Best Paper Award, for the paper 'Resource Provisioning through Traffic-Aware Code Allocation in a Hybrid PON Employing WDM and OCDMA,' by J. Ratnam, S. Chakrabarti, D. Datta	IEEE Conf. on Adv. Networks and Telecommunications	2008

		Systems (ANTS)	
4.	2 nd Best Design Entry Award ; [Md. Safiullah and S. Chakrabarti, 'FPGA Implementation of a Burst QPSK Modem for Satellite Applications.']	20 th Int. Conf. on VLSI Design and Embedded Systems	2007
5.	Best Design Entry Award for B. R. Nag Design Contest Award; [B Ray and S. Chakrabarti, 'A 250 mbps Channel CODEC ASIC complying to GSM TCH/FH Standard on 0.25 micron CMOS.']	18 th Int. Conf. on VLSI Design and Embedded Systems	2005
6.	Awarded special citation for securing 8 th Rank in Higher Secondary Examination, 1980 in the state of West Bengal	WB Council for HS Education	1980
7.	Awarded special citation for securing 9 th Rank in Secondary Examination, 1978 in the state of West Bengal	WB Board of Secondary Education	1978

15. International academic exposure:

S. No.	Post / Assignment	Organization / Institute	Area of Assignment	Duration		
				From	To	In Years and Months
1.	Visiting Professor	University of Southern California, USA	Electrical Engineering	July 2005	December 2005	06 Months
2.	Visiting Faculty	Georgia Tech, USA	Electrical Engineering	May 2003	July 2003	02 Months

16. Membership of Societies:

(a) Senior Member, IEEE
(b) Member, IEEE Communications Society
(c) Member, IEEE Engineering in Medicine & Biology Society