

Brief Resume

1. *Name:* **SASWAT CHAKRABARTI**

2. *Date of Birth :* 5th September, 1963

3. *Educational Qualifications*

Degree/ Examination	University/ Institute	Year	Specialization	Division/ Class	% of Marks	Rank in Board/ University
PhD	IIT Kharagpur	1992	Electronics & Electrical Communication Engg.	Not Awarded	Not Awarded	Not Awarded
M.Tech	IIT Kharagpur	1985	Satellite Communications	Not Awarded	9.21/10.0 CGPA	Not Awarded
B.E.	Jadavpur University, Kolkata	1984	Electronics & Tele- Communication Engg.	1 st Class, Hons.	83.5%	Not Awarded
Higher Secondary Examination	West Bengal Council for HS Education	1980	PCM, English, Bengali	1 st Div.	78.5%	8 th Rank in West Bengal
Secondary Examination	West Bengal Board of Secondary Education	1978	Eng., Beng., Sans., Math., Phy Sc., Life Sc., Hist., Geo.	1 st Div.	85.7%	9 th Rank in West Bengal

4. *Professional Experience*

(a) *Teaching & Research:*

Designation	University / Institute	From	To	Nature of Experience
Professor	IIT Kharagpur	13.04.07	Till date	Teaching at UG& PG level, Research guidance to PhD students
Associate Professor	IIT Kharagpur	01.08.2000	12.04.07	Teaching at UG& PG level, Research guidance to PG and PhD students
Assistant Professor	IIT Kharagpur	01.01.95	31.07.2000	Teaching at UG& PG level, Research guidance to UG, PG and PhD students
Lecturer	IIT Kharagpur	15.01.91	31.12.94	Teaching and Research at UG& PG level

(b) Industrial / Professional :

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

5. Academic / Professional Awards

- Awarded special citation and National Scholarship for securing **9th Rank in Secondary Examination**, 1978 in the state of West Bengal (amongst more than 2,70,000 examinees).
- Awarded special citation for securing **8th Rank in Higher Secondary Examination**, 1980 in the state of West Bengal (amongst more than 2,50,000 examinees).
- **Best Design Entry** for B. R. Nag Design Contest Award; 18th Internat. Conf. on VLSI Design and 4th Int. Conf. on Embedded Systems, Kolkata, Jan 3 – 7, 2005 [Baijayanta Ray and S. Chakrabarti, 'A 250 mbps Channel CODEC ASIC complying to GSM TCH/FH Standard on 0.25 micron CMOS.']
- **Second Best Design Entry**; 20th Internat. Conf. on VLSI Design and 6th Int. Conf. on Embedded Systems, 2007. [Md. Safiullah and S. Chakrabarti, 'FPGA Implementation of a Burst QPSK Modem for Satellite Applications.']
- **Best Paper Award**, IEEE Conf. on Adv. Networks and Telecommunications Systems (ANTS) 2008 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

6. 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. Research Guidance

Broad Area of Research: Wireless Digital Communications

Level of Guidance	Degree	Degree Awarded on Completion	Submitted	In progress
Doctoral level	PhD	15	--	03
Masters	MS (by Research)	09	-	01

8. Guidance of Academic Projects

Level of Guidance	Program	Number Completed	Number in progress
Masters	M.Tech	>60	04
Bachelors	B.Tech	>60	04

9. Publications

Publications	Published
In referred journals	42
In proceedings of seminars/ conferences	118

10. 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

11. Sponsored Research & Industrial Consultancy

Type of Project	Completed	Ongoing
Sponsored	12	01
Consultancy	08	--

12. Other Activities (Short Term Courses/ Visits)

- Coordinated more than 10 Short Term Courses
- Visited and delivered lectures on topics related to Wireless Digital Communications at numerous engineering institutes and R&D organizations within the country
- Members of several national level committees

13. Visits Abroad

- Visited the Dept. of Electrical Engineering Systems, University of Southern California, Los Angeles, during Autumn 2005 as a Visiting Professor.
- Visited Georgia Instt. of Technology, Atlanta, USA in Summer 2003.

14. Administrative Responsibilities

- Head / Chairman, GS Sanyal School of Telecommunications, IIT Kharagpur, (April, 2006 – June, 2010 and from April, 2012 till date)
- Warden of Sir Asutosh Mukherjee Hall of Residence at IIT Kharagpur from October, 2007 till September 2009.
- Member of various academic and administrative committees at IIT Kharagpur.