



UNIVERSITY OF CALCUTTA

JUTE AND FIBRE TECHNOLOGY

FACULTY ACADEMIC PROFILE/ CV

1. **Full name of the faculty member:** RABISANKAR CHANDA
2. **Designation:** Professor
3. **Specialisation :** Electrical Engg (Power System)
4. **Passport size photograph :** .



5. **Contact information :** E-mail: rabi82@rediffmail.com, Mob:9433561961

6. **Academic qualifications:**

College/ university from which the degree was obtained	Abbreviation of the degree
B.E. College, Calcutta University	B.E (Electrical Engg.)
Calcutta University	M.Tech (Elect. M/C & Power Supply system)
Jadavpur University	Ph.D (Engg.)

7. **Positions held/ holding: Presently Holding Professor Post in the Department.**

8. **Research interests:** Power System, Fuzzy set application to power system, Reliability etc.

9. **Research guidance :**

Number of researchers awarded M.Phil/ Ph.D degrees : Ph.D:-01

Number of researchers pursuing M.Phil/ Ph.D :

10. **Projects :**

List of AICTE Projects Coordinated individually:

Scheme	Project Title	Duration	Amount Sanctioned	Completed or not
MODROBS	Development of Electronics & Microprocessor Lab. For Better Infrastructural Facility	2003-2005 (2 years)	Rs. 4.5 lakhs	Completed

11. **Membership of Learned Societies:**

Member of any professional Institution :

- a) Fellow of Institution of Engineers (India) [Life Member]
(Membership No.- F-116461-5 dated 29-9-2011)
- b) Chartered Engineer (India) on 03-11-2011

12. **Patents :**

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13. **Invited lectures delivered:**

14. **Awards:**

- i) Obtained a “ **Certificate of Merit 2003-2004**” award for a paper published in the Journal of Institution of Engineers (India).
[EL-84, Dec’2003, pp-114-119]
- ii) Obtained a “ **Certificate of Merit 2005-2006**” award for a paper published in the Journal of Institution of Engineers(India).
[EL-86, Dec’2005, pp-155-159]

15. **Other notable activities:**

- a) Conducted Energy Auditing Projects of a Mill of National Textile Corporation – Eastern Region, namely M/S Arati Cotton Mill Dasnagar, Howrah.
- b) Acted as an external examiner of an M.E thesis of J.U in the year 1998 vide their letter ref. No.-Ex/MEE/Th/404/98 dated 6-3-98.
- c) Acted as an external examiner of an M.E thesis of J.U in the year 2000 vide their letter ref. No.-Ex/MEE/Th/610/183/2000 dated 4-3-2000.
- d) Acted as an external examiner of an M.E thesis of J.U in the year 2002 vide their letter ref. No.-Ex/Th/EL-B-301/2002 dated 4-3-2003.
- e) Acted as a member of the visiting team constituted for the purpose of semester examination, 2003 of West Bengal University of Technology vide their letter ref. no. COE/1st , 3rd . & 5th . Sem. /VT/2003 dated 02.12.2003.

16. **Select list of publications:**

LIST OF PUBLICATIONS

- 1) **R.S. Chanda and P.K. Bhattacharjee**, Transmission expansion planning by linear programming method, ***Proc. of 7th National Power Systems Conference***, India, Feb., 1993, pp-354-359. [ISBN-0-07-462035-5]
- 2) **R.S. Chanda and P.K. Bhattacharjee**, Application of computer software in transmission expansion planning using variable load structure, ***Electric Power System Research***, Vol. 31, No. 1, Oct. 1994, pp. 13-20.[ISSN-0378-7796, Impact Factor-1.694]
- 3) **R.S. Chanda and P.K. Bhattacharjee**, A reliability approach to transmission expansion planning using minimal cut theory, ***Electric Power System Research***, Vol. 33, No. 2, May, 1995, pp-111-117. [ISSN-0378-7796, Impact Factor-1.694]
- 4) **R.S. Chanda and P.K. Bhattacharjee**, Application of network simplex in transmission expansion planning using computer software, ***Journal of the Institution of Engineers (India)*** CP-76, May, 1995, pp-10-13.[ISSN-0971-0469]

- 5) **R.S. Chanda and P.K. Bhattacharjee**, A reliability approach to transmission expansion planning using fuzzy fault-tree model, *Electric Power System Research*, Vol-45, No. 2, May, 1998, pp-101-108. [ISSN-0378-7796, Impact Factor-1.694]
- 6) **R.S. Chanda, P.K. Das and P.K. Bhattacharjee**, Prospect and potential of Mini-Micro and small hydel power in North Bengal – *Indian Journal of Power and River Valley Development*, vol-52, No. 1 & 2 Jan – Feb, 2002, pp 31 - 39. [ISSN-0019-5537]
- 7) **R.S. Chanda, P.K. Das and P.K. Bhattacharjee**, Hydel power – most prospective but least developed power in West Bengal & North Eastern region - *Indian Journal of Power and River Valley Development*, vol-52, Nos. 7 & 8, July – Aug. 2002, pp 146 - 156. [ISSN-0019-5537]
- 8) **R.S. Chanda and P.K. Bhattacharjee**, Transmission expansion planning : A fuzzy linear programming based approach, *Journal of the Institution of Engineers (India)* EL-84, Dec, 2003, pp-114-119. [ISSN-0020-3386]

[A “certificate of merit 2003-2004” awarded paper]

- 9) **R.S. Chanda, P.K. Das, P. Acharya, P.K. Bhattacharjee**, Prospect potential & achievements of Non - Conventional & renewable sources of energy in West Bengal – A paper presented in a **National Seminar on India’s Energy Vision to 2030 – issues, constraints & way ahead**, held in Kolkata from 19-21 Dec’2003 organised by *Indian Journal of Power and River Valley Development* & published in Vol-54, No.-9, Sept’2004, pp-230-232. [ISSN-0019-5537]
- 10) **R.S. Chanda, P.K. Das, P. Acharya, P.K. Bhattacharjee**, Present power scenario of West Bengal – An updated review – *Indian Journal of Power and River Valley Development*, Vol-54, No.-10, Oct’2004, pp-289-296. [ISSN-0019-5537]
- 11) **R.S. Chanda, P.K. Das and P.K. Bhattacharjee**, Optimal Transmission expansion planning and Reliability : A deterministic Approach, *Journal of the Institution of Engineers (India)* , EL-85, Dec’2004, pp-129-137. [ISSN-0020-3386]
- 12) **R.S. Chanda, P.K. Das and P.K. Bhattacharjee**, Combined Generation and Transmission system expansion planning using implicit enumeration and Linear Programming technique, - *Journal of the Institution of Engineers (India)*, EL-86, Sept’2005, pp-110-116. [ISSN-0020-3386]
- 13) **R.S. Chanda, P.K. Das and P.K. Bhattacharjee**, A Fuzzy set based Reliability approach to Transmission Expansion Planning, - *Journal of the Institution of Engineers (India)* , EL-86, Dec’2005, pp- 155-159. [ISSN-0020-3386]

[A "certificate of merit 2005-2006" awarded paper]

- 14) **R.S. Chanda, P.K. Das and P.K. Bhattacharjee**, Success of Harnessing of Non-Conventional and Renewable energy in West Bengal,- A paper presented in the International Conference on Electricity- the energy carrier for the present and the future, held in Kolkata from 3-5 Feb'2006 organized by **Indian Journal of Power and River Valley Development & published in vol-57, Nos. 1 &2, Jan-Feb'2007, pp-56-62.** [ISSN-0019-5537]

- 15) **R.S.Chanda, S. Bhattacharjee, A.Auddy**, Deterministic Reliability Analysis of a Jute Spinning Mill Using Minimal Cut Theory, - **Journal of the Institution of Engineers (India)** (Interdisciplinary Divn.), Vol-87, May'2006, pp-10-13. [ISSN-0970-9843].

- 16) **R.S.Chanda, Ms. R. Banerjee, S. Bhandari, S. Nath**, Optimal Machine Scheduling Using Fuzzy Linear Programming,- **Journal of the Institution of Engineers (India)** (Computer Divn.), Vol-89, Nov'2008, pp-17-21. [ISSN-0971-0469]

- 17) **R.S.Chanda, P. Samanta, S. Sarkar, P. Das**, Reliability Analysis of a Jute Spinning Mill Using Fuzzy Set Concept,- **Journal of the Institution of Engineers (India)** (Interdisciplinary Divn.), Vol-89, Nov,2008, pp-37-41. [ISSN-0970-9843].

- 18) **R.S.Chanda, S.K.Biswas**, Mathematical Approach to Generating Fibre Length Distribution Via Computer Simulation,- A paper published in the International Symposium on **Jute and Allied Fibres Production, Utilization and Marketing**, held in Kolkata from 9-12 Jan'2008 organized by **Indian Fibre Society (Eastern Region)** & Published by **Indian Fibre Society (Eastern Region)**, CRIJAF, Barrackpore, Kolkata-700120 in association
with CITADEL, 4/10A, Bijoygarh, Kolkata-700032. pp-83-90

[ISBN: 978-81-901054- 4-6]

- 19) **R. S. Chanda**, On Fuzzy Optimization Technique Application- **International Journal for Scientific Research & Development (Online Journal)**, Vol-1, Issue-4, June, 2013, pp-953-957. [ISSN(online): 2321-0613] (General Impact Factor-1.2617)

- 20) **R.S. Chanda**, Optimal Transmission Expansion Planning: An Application To 400 KV System in West Bengal- **International Journal of Emerging Technologies in Computational and Applied Sciences (IJETCAS)**, Issue-6, Vol-1, Sept.- Nov,2013, pp-63-68. [ISSN (Online): 2279-0055, ISSN (Print): 2279-0047 (I.F.C Value- 1.237)]

- 21) **R.S. Chanda**, On Energy Auditing: An Experience With A Jute Mill - **International Journal on Recent and Innovation Trends in Computing and Communication**, Issue-10, Vol-2, Oct, 2014, pp-3134-3137. [ISSN (Online): 2321-8169, (I.F. Value- 5.098)]

- 22) **R.S. Chanda**, On Fault-Tree Analysis: A Possibilistic Approach - **International Journal on Recent and Innovation Trends in Computing and Communication**, Issue-11, Vol-2, Nov, 2014, pp-3565-3568. [ISSN (Online): 2321-8169, (I.F. Value- 5.098)]