

# Dr. Shubhashis Sanyal

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## **Qualifications:**

- **Ph.D.**, RANI DURGAVATI VISHWAVIDYALAYA, JABALPUR, awarded 31<sup>st</sup> May 1998.
- **M.E.** in MACHINE DESIGN, ROORKEE UNIVERSITY, 1990, (Honours with 77.80% Marks).
- **P.G.Diploma in English Language**, 1988, RAVISHANKAR UNIVERSITY, RAIPUR (First Class First 72.50% Marks).
- **B.E. (Mechanical)**, 1987, GURU GHANSIDAS UNIVERSITY, BILASPUR (Honours 77.17% Marks).
- **Higher Secondary School Certificate (Technical Group)**, 1982, MP Board of Secondary School Examination, Bhopal (M.P.)

## **Award:**

1. **GSFC & ISTE National Award** for best M.Tech. Thesis “**Safe Spacing of Nozzles in Pressure Vessel**” submitted under the guidance of Prof. KB.Mulchandani, M.I.E.D. University of Roorkee, Second Prize Holder, 1990.
2. Certified **Applied DACUM Facilitator** and **Applied Strategic Planning Trainer** by CIILP.
3. Institute is awarded for **Dedicated Industry Linkage Activities** at **CIILP - SHOW CASE CONFERENCE GOA** – 8-10 Oct. 2004.

## **Areas of Interest:**

- Kinematic Synthesis of Mechanisms, Forward Kinematics of Robotic manipulator
- Machine Design, Stress Analysis.

## **Membership of Professional Institutions:**

1. Life Member, **Indian Society for Technical Education**, New Delhi.
2. Life Member, **Association for Machines & Mechanisms**.

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## Thesis Supervised:

1. P.G. Thesis supervised entitled “**Detection Of Isomorphism And Other Properties Of Kinematic Chains Using Joint-Loop Probability Matrix**” submitted by Sanjay Bhargava awarded on 2000-01 session.
2. Two Doctoral Thesis, in Pt. Ravi Shankar University, is currently under progress.

## Papers Published:

### (a) Published in International Journals:

1. **Pseudo Probabilistic Approach To Test Isomorphism Among Kinematic Chain**, by S.Sanyal, A.C.Rao, M.Choubey, Transactions of C.S.M.E., Vol. 21, No. 2, 1997.
2. **Pseudo Probabilistic Approach To Detect Distinct Inversions Of Kinematic Chain**, by S.Sanyal, A.C.Rao, M.Choubey, Transactions of C.S.M.E., Vol. 21, No. 2, 1997.

### (b) International Conference :

1. **Relief Holes for Stress Mitigation in Infinite Thin Plates with Single Circular Hole Loaded Axially** by Sanyal S and Ms. Priti Yadav, ASME International Mechanical Engineering Congress And Exposition, 5 – 11 November 2005, Orlando, Florida, USA.
2. **Multiple Relief Holes for Stress Mitigation in Infinite Thin Plates with Single Circular Hole under axial loading** by Sanyal S and Ms. Priti Yadav, 5-8 July 2006, 2nd IC-SCCE, From Scientific Computing to Computational Engineering” Athens, 5-8 July, 2006.

### (c) Presented in National Conferences:

1. **Computer Aided Design & Drafting Of Flange Coupling Through Parametric processing**, by V.Verma, S.Sanyal, NACOMM 1993, I.I.T. Kharagpur.
2. **Photoelastic Analysis For Safe Spacing Of Nozzles In A Pressure Vessel**, by S.Sanyal, K.B.Mulchandani, NACOMM 1993, I.I.T. Kharagpur.
3. **Computer Aided Synthesis Of Slider Crank Mechanism With Four Accuracy Points**, by S.Khandekar, P.Sharma, S.Sanyal, NACOMM 1993, I.I.T. Kharagpur.
4. **Analysis Of Walking Mechanism And Design Of The Shoe Insole Through Mathematical Modelling**, by A.Chaturvedi, S.Sanyal, NACOMM 1995, C.M.E.R.I., Durgapur.
5. **Detection of Isomorphism Among Kinematic Chains Using Joint-Loop Probability Matrices**, by A.Ganguly, S.Sanyal, NACOMM 1997, I.I.T. Kanpur.

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## Case Study Presentation :

1. Case study on **SUSTAINABLE MODEL OF REVENUE GENERATION** at Show-Case Conference held at GOA on 2004.

## Sponsored R&D consultancy Projects :

S. No.	Name of the project	Funding Agency	Financial Budget	Year of Start & total Period	Name of P.I. and other Investigators.	Present Status
1	<b>Design Development &amp; Fabrication of a test rig for performance evaluation of rolling element bearing</b>	1. RPS- AICTE 2. DTE - CG	5 Lakhs + 1.76 Lakhs	2005, 3 years	Mr. SPS Matharu &  Dr.S.Sanyal	continue  d
2	<b>Computer Aided Design and Drafting Lab Development</b>	FIST- DST	15 Lakhs	2006, 3years	Dr. S.Sanyal for  CAD Lab	Comple  ed

## Work Experience:

1. Design Engineer, Tata Consulting Engineers, Bombay (from June to October 1990)
2. .15 years teaching in **U.G. & 12 years in P.G. level** (Mechanical Engineering Department) as Lecturer, Engineering College. Presently working as Reader in Mechanical Engineering Department.

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3. Worked as **Industry Linkage Officer** in the institute under the Canada India Institute Industry Linkage Project, from 2000 to 2004.
4. Visited SIAST, Saskatoon, Canada and MoHawak College, Hamilton, Canada for a fortnight on a **study tour** to understand the institutes working and their partnership with industries from 5<sup>th</sup> Oct. 2002 to 17<sup>th</sup> October 2002.
5. Developed two Competency Based Course Curriculum's using DACUM techniques one at Ujjain Polytechnic in **Chemical Process Operator** and another at Raipur Engineering College on **Commissioning and Maintenance of Transformer**.
6. Provided training for development of Institute's Strategic Planning to four institutes in 2004.
7. Worked as Hostel Warden for 15 years, Chief warden as 02 years.
8. Additional Charges of Head, Engg. Mechanics Department.
9. Worked as Registrar of NIT Raipur for a period of one and half years.

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## **Special Training / Short Term Courses (2-weeks) attended:**

1. **Engineering Applications of Computer Graphics**, University of Roorkee, 1991.
2. **Computational Fluid Flow and Heat Transfer**, I.I.T., Kanpur, 1992.
3. **Advanced Mechanism Design**, I.I.Sc. Bangalore, 1995.
4. **ISO 9000 – Quality Systems**, University of Roorkee, 1995.
5. Summer Continuing Education Programme on **Finite Element Methods on Mechanical system Design** at IIT Kharagpur from 1 –13 July 2002.
6. **Training Programmes in the areas of Industry Institute Linkage as ILO** under **CANADA INDIA INDUSTRY INSTITUTE LINKAGE PROJECT:**

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- Training for Industry Linkage Officers from 13<sup>th</sup> – 17<sup>th</sup> November 2000 at Pune.
- Strategic Planning at Raipur from 16th – 17th January 2001.
- Study Tour for Industry Linkage Officers from 8th – 11th May 2001 at Chennai.
- Strategic Planning Training Phase-II from 18th – 20th September 2001 at Raipur.
- Training under Program in Tools for Formation of Managing Committees and their Functioning and Training in MOU Negotiation, Consultation Techniques and Professionalism from 31st October 2001 – 6th November 2001 at Pune.
- Training on Understanding Concept of Canadian Community Colleges and IIL Mechanism in Canadian Community Colleges at Amravati from 8th – 12th December 2001.
- Training on Development of Linkage Models and Market Study for Industry Linkage Officers and Continuing Education Managers from 9th – 11th January 2002 at Raipur.
- Training in Networking, Coordination and Review of Implementation at Engineering College Raipur from 15-16 Nov. 2002.
- Training in Tracer Study Techniques at Govt. Poly. Nasik from 16th – 18th January 2003.
- National Workshop on “ Rural Industrialisation ” at MGIRI, Wardha.
- Training in DACUM from 23rd June 2003 – 05th July 2003 at Ujjain Polytechnic.
- Training in “Management Systems And Approaches & Setting-up Of A Virtual Clearing House For Vocational Training” at Pune from 13th – 15th November 2003.
- Training in “Strategic Planning Training Phase-I for Replication Institutes” at Pune from 18th – 20th December 2003.
- Training in “Work Place Education – I” at S.V. Polytechnic Bhopal from 02nd – 05th February 2004.
- Trainers Training Workshop in “Strategic Planning” at Project Office Pune from 29th – 31st March 2004.
- Training of Strategic Planning at four replication institutes namely ITI-Raipur, Govt. Polytechnic – Korba, Govt. Polytechnic – Durg and Govt. Engineering College – Raipur dated 10th & 11th May 2004, 21st & 22nd May 2004, 01st June 2004 and 28th & 29th June 2004 respectively.
- Training in “Work Place Education – II” at 24th August 2004 at Raipur.