

Name: Dr. Jayanta Pal

Department: Basic Science & Humanities

Contact Nos.: +91 8145526254



Qualifications: M.Sc. (Physics), M. Tech. (Energy Science), Ph. D.

Designation: Associate Professor

VIDWAN ID: 181373

Experience (Teaching / Research / Industry, in years): 16 Years Teaching Experience

Date of Joining at the Present Institution: 23-03-2010

Examinations Cleared: NET-CSIR/GATE : N/A

Qualifications Summary (Reverse chronological order):

Degree	Institute	From – To	Subjects
Ph. D.	Jadavpur University	2001 to 2005	Electrical Properties of Metal Semiconductor Interface
M. Tech.	Jadavpur University	1999 to 2001	Energy Science and Technology
M. Sc.	Presidency College (CU)	1996 to 1999	Physics
B. Sc.	Jangipur College (CU)	1993 to 1996	Physics(H), Chemistry, Mathematics

Experience Summary (In chronological order):

Designation,	Organization,	Date From – Date To
Lecturer (Engg. Physics)	Murshidabad College of Engineering & Technology	11 th May, 2005 to 9 th July, 2009
Sr. Lecturer & HOD of Engg. Physics Dept.	Surendra Institute of Engineering & Management	10 th July, 2009 to 20 th March 2010
Assistant Professor	Dr. B. C. Roy Engineering College	23 rd March 2010 31 st December 2019

Specialization/Research Interest: X-Ray & Crystallography, Photovoltaic Solar Cell

Awards & Recognitions

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

N/A

Courses taught: Physics, Physics Practical

B.Tech: Specify the name of the subject/s (Theory first and then practical)

M.Tech: specify the name of the Subject/s

Online Mode of Teaching: Google Meet with PPT Presentation

The Faculty member needs to specify the online teaching/ assessment method adopted. (Link to any faculty created resources for Lecture notes / PPT/ Video Lecture etc. in Google Drive / Weblink etc)

Publications:

Journal:

1. "A Method for Forming Low Resistance Contact to p-CdTe", B. Ghosh, N. K. Mondal, P. Banerjee, **J. Pal**, and S. Das; *Jnr. IEEE Transaction on Electron Devices*, 49, Issue-12, pp- 2352- 2355, December, 2002.
2. for the Cultivation of Science, Jadavpur, Kolkata-700 032, pp-29, October 8-9, 2004.
3. "Studies on Nanocrystalline Copper Oxide for Super Conducting Applications", **Jayanta Pal**; *Proc. 92nd Indian Science Congress*, Material Science, January 3-7, 2005.
4. "Fabrication of Spintronic Material $Cd_{1-x}Mn_xTe$ using Stack Deposition", P. Banerjee, **J. Pal**, B. Ghosh; *Jnr. of Materials Science*, 40, pp-1333-1337, March, 2005.
5. "Opto-electrical and Structural Properties of Cu_xO Thin Films grown by R. F. Sputtering Method", **Jayanta Pal**; *Jnr. Of Alternate Energy Sources & Technology*, Vol. 2, Issue 1, pp-8-15, May, 2011.
6. "Specific Contact Resistance of Cu_xO Thin Films Deposited by r. f. Sputtering Method", **Jayanta Pal**; *Jnr. Of Alternate Energy Sources & Technology*, Vol. 3, Issue 3, pp-10-16, December, 2012.

7. "Electrical Properties of Nanocrystalline Cu_xO Thin Films Prepared by r. f. Sputtering Method", **Jayanta Pal**; *Jnr. of NanoScience, NanoEngineering & Applications*, Vol. 3, Issue 2, pp-30-37, August, 2013.
8. "Characterization of CuxO Thin Film Deposited by R. F. Sputtering Method Using TLM and Van der Pauw Technique", **Jayanta Pal**; *Int. Jnr. of Scientific Research and Nano-Technology*, Vol. 1, Issue 1, pp- 8-14, October, 2015
9. "Study of Minority Carrier Life Time and Diffusion Length of Photovoltaic Devices", **Jayanta Pal**; *Jnr. Of BCREC Engineering & Science Transaction*, Vol. 2, Issue 1, pp- 44-55, 2021. ISSN 2582-9068.

Conference:

1. "Cu_xO a Possible Contacting Material to p-CdTe", N. K. Mondal, S. Das, **J. Pal**, P. Banerjee and B. Ghosh; Proc. 29th IEEE Photovoltaic Specialist Conference, Hyatt Regency, New Orleans, Louisiana, Paper Number: 2P1.13.
2. "Possibilities and Potential for Industrial Grade Power from Bio-Mass Gasification", B. Ghosh, Suman Dey and **Jayanta Pal**; Proc. *International Seminar on Decentralized Energy: Option & Management*, The Institution of Engineers (India), pp- 116-122, February 22-24, 2002.
3. "A Novel Method for Fabrication of Thin Film SnS/CdS Solar Cells", B. Ghosh, **J. Pal**, P. Banerjee, S. Dey, and S. Das; Proc. 19th European Photovoltaic Solar Energy Conference and Exhibition, Session Reference: 4AV.1.4, Abstract No.[47]. Paris, France, June 7-11, 2004.
4. "Efficiency Characteristics of a BIPV System in Hot & Humid Conditions", B. Ghosh, **J. Pal**, P. Banerjee, S. Dey, M. Roy, R. S. Aithal, and S. G. Kinni; Proc. 19th European Photovoltaic Solar Energy Conference and Exhibition, Session Reference: 6DV.2.10. Abstract No. [73]. Paris, France, June 7-11, 2004.
5. "Building Integrated Power": the coming age, **Jayanta Pal** and Pushan Banerjee; Proc. *INNOVA-The Sprit of Knowledge*, Issue-IV, Chemical Engineering Department, Jadavpur University, Kolkata-700 032, pp-28-31, 2004
6. "Evidence on Fuel Securities in Domestic Sectors from Rice Husk Gasifier Projects: Some Studies", S. Maiti, **J. Pal**, S. Dey, and B. Ghosh; Proc. *National Seminar on Renewable Energy Technologies: Innovations and Market Penetration*, Solar Energy Society of India, Indian Association for the Cultivation of Science, Jadavpur, Kolkata-700 032, pp-27, October 8-9, 2004.

Book:

Name of the author/s (**Make bold font for own name**), "Title of the Book", Name of the Publisher, Year of Publication, ISBN Number (Print / Online)

Ex: 3. Opperman, **I.**, Hamalainen, M., Iinatti, J. "UWB theory and applications" (John Wiley and

Sons, 2004) , Print ISBN 978-981-13-3121-3, Online ISBN 978-981-13-3122-0

Book Chapter:

Name of the author /s (**Make bold font for own name**) "Title of the Chapter", "Page no. of the Chapter", "Title of the Book", "Name of the Publisher", Year of Publication. ISBN Number (Print / Online)

Ex: 4. Opperman, I., Hamalainen, M., Linatti, J. "Abc xyz" pp. 123-127 "UWB theory and applications" (John Wiley and Sons, 2004), Print ISBN 978-981-13-3121-3, Online ISBN 978-981-13-3122-0

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

For Ph.D

- 1. Name of the student, Name of the supervisor, " Title of the thesis", Year , Name of the university (completed)**
- 2. Name of the student, Name of the supervisor, " Title of the thesis", Year, Name of the university (Registered)**

Projects:

- 1. Name of the student/s (with university roll number), Name of the supervisor, " Title of the Project / thesis" , Year (only final year 8th Sem Project for B.Tech and Thesis for M.Tech)**

Invited Lectures:

Topic of the lecture, Name of the event, organized by, Date

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

Name of the event, duration, Year, Organized by.

Participation in faculty development programmes

Name of the faculty development programmes, Online / Face-to-face/ From Date – To Date, Duration, Year, Organized by.

- 1. NPTEL –AICTE Faculty Development Program on Solar Photovoltaic: Fundamentals,**

Technology and Applications

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

Name of the event, Date, Year

Participation in administrative committees (selected)

Name of the post (Convener/Joint Convener/Member secretary/Co-ordinator etc.), Name of the committee, year

1. HoD, Basic Science & Humanities
2. Member of Appraisal Committee
3. Faculty Representative of BOG
4. Member of NAAC Core Committee
5. Chairman of Scientific Purchase Committee

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

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