Patha Bhavana, Visva-Bharati, Santiniketan

1. **Name:** Dr. Jotindra Nath Roul

2. **Date of Birth:** 08-01-1987

3. **Designation:** Asst. Lecturer in Mathematics

4. **Email:** jotindranath.roul@visva-bharati.ac.in;

5. **Date of Joining: 20-02-2014**

6. **Present Experience: Teaching at the Visva-Bharati:** From   20-02-2014   to present at Patha Bhavana; **11 years 8 months**

7. **Administrative/Other Experiences at the Visva-Bharati:**

    Guest Teacher at Palli Samgathana Vibhaga [Institute of Rural Reconstruction],

    Visva Bharati from 19.02.2020 to 04-03-2022

    NSS Program officer, Patha Bhavana from 2023 to till date

    Member of admission committee of Patha Bhavana from 2019 to 2021 and 2022 to till date

8. **Past Teaching Experience: 2 years 7 months**

    Asst. Professor in Mathematics at Haldia Institute of Technology, Haldia, West Bengal, approved by NBA, AICTE and NAAC from 12.07.2011 to 17.12.2013;

    Asst. Teacher in Mathematics at N J High School, Department of School Education, Govt. West Bengal from 18.12. 2013 to 19.02.2014;

9. **Total teaching experience: More than 14 years**

10. Academic Qualifications (Starting from 10th Std.):

Name of Degree	Name of University/ Institution	Subject
Class X	Arunya Netaji Sikshaniketan High School, W.B.B.S. E	Bengali, English, Mathematics, Physical Science, Life Science, History, Geography
Class XII	Banamalichatta High School, W.B.C.H.S. E	Bengali, English, Mathematics, Physics, Chemistry, Bio- Science
B.Sc.	Midnapore College (Autonomous), Vidyasagar University	Mathematics (Hons)
M.Sc.	Vidyasagar University	Applied Mathematics [Special Paper: Operations Research]
PhD	National Institute of Technology Durgapur	Operations Research and Optimization Course Work Details: M1951-Research Methodology, M9012-Graph Theory and its Applications M9015-Fuzzy set, Fuzzy Logic and Decision Making
B.Ed.	Tamralipta Mahavidyalaya, [Vidyasagar University]	Principles of Education, Psychology of Developments and Learning; History of Indian Education, School Organization, Education and Mental Measurement, Practical on Teaching, and others

11. Detailed List of Publications
a) Research Papers and Articles in the Journals (with ISSN Number):

Co-authors	Title of Paper, Volume and page No	Journal Name, Name of publisher and Year	ABDC/ABS Journal Category (Scopus/Web of Science listed); Impact Factor
JN Roul, K Maity, S Kar and M Maiti.	Multi-item reliability dependent imperfect production inventory optimal control models with dynamic demand under uncertain resource constraint, 53(16) 4993-5016	International Journal of Production Research, Taylor &Francis, 2015	Rating: A SCI Journal Impact Factor- 8.568 ISSN: 1366-588X

JN Roul, K Maity, S Kar and M Maiti.	Optimal control problem for an imperfect production process using fuzzy variational principle 32(1) 565 – 577	Journal of Intelligent & Fuzzy Systems, IOS Press, 2017	SCI Journal Impact Factor -1.851 ISSN: 1875-8967
JN Roul, K Maity, S Kar and M Maiti.	Multi-item Optimal control problem with fuzzy costs and constraints using Fuzzy variational principle, 53(3) 1061-1082	RAIRO Operations Research, EDP Sciences, 2019	ABS, SCI Journal Impact Factor -1.393 ISSN: 1290-3868
JN Roul, K Maity, S Kar and M Maiti.	Optimal time dependent production policy under random time horizon, 57, 391 – 413	Opsearch, Springer 2019	ABS, Scopus ISSN: 0975-0320

b) Chapters Contribute in edited Volume (with ISBN Number):

JN Roul, U Bera, S Kar and M Maiti, Review on Optimal Control Problems for Bio-Mathematics in Uncertain Environments, 2016 in Bio-Mathematical Modelling Under Uncertain Environment, Narosa Publishing House, ISBN 978-81-8487-523-2;

c) Paper Published in Conference Proceedings:

JN Roul, K Maity, S Kar and M Maiti. A Multi-item Imperfect Optimal Production Problem through Chebyshev Approximation. In Recent Advances in Intelligent Information Systems and Applied Mathematics, indexed by Scopus Studies in Computational Intelligence 863, 481-493 Springer Proceedings, 2020;

JN Roul, K Maity, S Kar and M Maiti. Optimal control problem of product assortment in an imperfect and perfect production system for infinite time horizon. Engineering Mathematics and Computing 1042, 117-141, Springer Nature Singapore Pte Ltd 2023.

M. De, JN Roul and M Maiti. Decisions for Production Rate and Investment in Preservation for Deteriorating Items of an Optimal Control Problem with Dynamic Demand. Proceedings of Fourth International Conference on Engineering Mathematics and Computing, Lecture Notes in Networks and Systems 1340, 177-194, Springer Nature Singapore Pte Ltd. 2025

d) Papers Presented in the Conference

i. **J N Roul,** K Maity and M Maiti "Multi–item for inventory model" in Recent Trends in Mathematics and Its Applications (1st ICRTMA– 2013), **Vidyasagar University, West Bengal, India, March 2013**

ii. **J N Roul**, K Maity, S Kar and M Maiti "Optimal control problem for substitute item's introduction of advertisement concept under infinite time horizon" in (2nd ICRTMA 2015), **Vidyasagar University, India, March 2015**

iii. **JN Roul**, K Maity, S Kar, M Maiti. "Optimal control problem of product assortment in an imperfect and perfect production system for infinite time horizon". International Conference on Mathematical Modelling, Differential Equations, Scientific Computing & Applications **(ICMMDESCA–2016), IIT Kanpur, India. Mar 2016,**

iv. **JN Roul**, K Maity, S Kar, M Maiti. " Optimum Production for a heaped stock dependent breakable item through variational principle" in **85th Annual Conference of Indian Mathematical Society, IIT Kharagpur India. Nov 2019**

v. **JN Roul**, M De, M Maiti, "Decisions for production rate and investment in preservation for deteriorating items of an optimal control problem with dynamic demand", in international webinar "The role of Applied Mathematics in Present Global Crises" **Vidyasagar University, India, August 2020.**

12. Participation in, Workshop, Seminar, Conference, Short Term Course:

i. Attended National Seminar on dated 6 March–7 March, 2008 ON "APPLIED AND COMPUTATIONAL MATHEMATICS AND THEIR APPLICATIONS" **Vidyasagar University, West Bengal.**

ii. Attended National Seminar on 2 August–3 August, 2012 ON "RECENT ADVANCES IN OPERATIONS RESEARCH" (NSRAOR– 2012), **Purash Kanpur Haridas Nandi Mahavidyalaya (PKHNM), Howrah, West Bengal.**

iii. Attended workshop on MATLAB on 11 August –12 August, 2012, organised by IEEE HIT STUDENT BRANCH at **Haldia Institute of Technology Haldia, West Bengal, India.**

iv. Attend Short Term Course on "Faculty development Programme for Effective Teaching" on 10 July–12 July, 2014 CET, **IIT Kharagpur, India**

v. Attend TEQIP–II Sponsored National Workshop on Advanced Algorithm and Optimization (AAO–2014) on 15 September–19 September, 2014 at **NIT Durgapur, India**

vi. Attend MHRD Govt of India, Sponsored GIAN Course on "Production and Operations Management" on 23 May–03 June, 2016, organised by Dept of Industrial and System Engineering, **IIT Kharagpur, India**

vii. Attend TEQIP-III Sponsored National Conference on Fuzzy Set Theory and Applications (FSTA-2017) Indian Homage to Professor Lotfi A. Zadeh on 30 November-02 December September, 2017 at **NIT Durgapur, India**

viii. Attend 3rd International Conference on Engineering Mathematics and Computing (ICEMC 2020) on 5th -7th February, 2020 at **HIT, Haldia, West Bengal, India**

ix. Attend Orientation Programme "Mental Health and Well-being of the University's students and staff" during and after the lockdown" (MHWUSSL) organized by Visva-Bharati Library Network (VBLN) 6th June, 2020 through WEBINAR, **Visva-Bharati, Santiniketan, West Bengal, India**

x. Attend One-Week National e-Workshop on "Using Open-Source Learning Management System for Online Teaching" jointly organized by Visva-Bharati Library Network (VBLN) & Dept. of Statistics, Siksha Bhavana, through WEBINAR during 17-25 August 2020, **Visva-Bharati, Santiniketan, West Bengal, India**

xi. Attend 5-day National Workshop on "Data Science and Advanced Computing" during 13th -14th March 2021 (Level-I) and 19th -21st March 2021 (Level-II) organized by the School of Advanced Sciences (SAS), through WEBINAR **VIT-AP University, Andhra Pradesh, India**

xii. Attend 4th International Conference on Engineering Mathematics and Computing (ICEMC 2024) on 7th-9th March, 2024 at **HIT, Haldia, West Bengal, India**

13. Any Other Information:

i. "SUBRATA MEMORIAL SMRITI PADAK" holding 1st position in School (2002)

ii. "MADHUSUDAN SMRITI" PURASKAR (2002) UNDER "NABASATAK AND PATHIKRIT TRUST" (Mohanpur Block, Midnapore, West Bengal, India)

iii. "JINDAL TRUST SCHOLARSHIP" (New Delhi, India) (from 2002 to 2006) in School and College level.

iv. "WEST BENGAL MERIT-CUM-MEANS SCHOLARSHIP" (2007 to 2008) under Govt. of West Bengal.

v. "WEST BENGAL RELIEF FUND SCHEME SCHOLARSHIP -2009" under Chief Minister Fund, in university level.

vi. "POST-METRIC SCHOLARSHIP-2010" for professional and training course under Govt. of West Bengal, India

vii. Qualified TET-2011 conducted by West Bengal central School Service Commission.

viii. Qualified GATE-2012 in Mathematics conducted by IIT & IISc, MHRD, Govt. of India

ix. Examiner from 2011 to 2013 of West Bengal University of Technology (WBUT), Kolkata, West Bengal, India.

x. Engaged as Mentor in Dept. of Computer Science and Instrumentation Control Engineering at Haldia Institute of Technology, Haldia, West Bengal, India from 2012 to 2013.

xi. Course Co-Ordinator of Engineering Mathematics in Dept. of Applied Science at Haldia Institute of Technology, Haldia, West Bengal, India in 2013.