



**Jyotiraman De**  
Mettalurgical Engineering & Materials Science  
Indian Institute of Technology Bombay

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Examination	University	Institute	Year	CPI/%
Ph.D.	IIT Bombay	IIT Bombay	2021-Present	9.79
M.Tech	R. T. M. Nagpur University	G. H. Rasoni CoE	2014-16	9.60
B.E.	Pune University	Amrutvahini CoE	2008-12	60.65
Intermediate/+2	CBSE	AECS Kakrapar	2006-08	65.40
Matriculation	CBSE	AECS Kakrapar	2006	72.60

#### ACADEMIC ACHIEVEMENTS

- **Silver medalist in M.Tech** for securing overall 2nd position in Masters (Jun'16)
- **PG scholarship for M.Tech** awarded by *AICTE* (Aug'14-May'16)
- **GATE 2014 qualified** (Mar'14)
- **First position & gold medal winner in paper presentation** at *S.V. National Institute of Technology, Surat* (Mar'11)

#### JOURNAL, CONFERENCE & BOOK CHAPTERS

- Karunanithi, A., De, J., Saxena, S. & Shukla, S.(2022). Surface Modified Nanoporous Substrates for Oil Water Separation. *Water, Air, & Soil Pollution*. 233, 30. <https://doi.org/10.1007/s11270-021-05493-6> (Jan'22)
- De, J. & Baxi, R. N. (2017). Experimental Investigation and Analysis of Mercerized and Citric Acid Surface Treated Bamboo Fiber Reinforced Composite. *IOP Conference Series: Materials Science and Engineering*, 225, 012154-012154. <https://doi.org/10.1088/1757-899X/225/1/012154> (Jul'17)
- De, J. & Baxi, R. N.(2016). Individual and Combined Effect of Mercerization and Silane Coupling Agent Treatment on Mechanical Properties of Bamboo Fibre. Paper presented at the International Conference on Technological Advancements in Materials and Manufacturing for Industrial Environment, Coimbatore. (Sep'16)
- Raut, A. A., & De, J. (2018). Ergonomic Design and Development of Material Handling Equipment for Pantry Car Personnel. In Ray P., Maiti J. (Ed.), *Ergonomic Design of Products and Worksystems - 21st Century Perspectives of Asia* (pp. 103-115). Singapore:Springer Nature. [https://doi.org/10.1007/978-981-10-5457-0\\_9](https://doi.org/10.1007/978-981-10-5457-0_9) (Nov'17)
- De, J. (2014) Universal Adaptive Headlight System, International Conference on Vehicular Electronics and Safety. <https://doi.org/10.1109/ICVES.2014.7063715> (Aug'14)

#### GRANTED & APPLIED PATENTS

- Granted Patents - 8
- Published Patents - 11

#### TECHNICAL SKILLS

- **Programming & Scripting Languages:** Python, Arduino
- **Tools & Libraries:**  $\LaTeX$ , Origin, CATIA, ANSYS
- **Lab Instruments:** UV-VIS Spectroscopy, Water Contact Angle, Lyophilizer, Atomic Absorption Spectroscopy, Water Multi Probe Detector, COD and BOD

#### WORK EXPERIENCE & INTERNSHIPS

- **PhD Research Scholar** | *Indian Institute of Technology Bombay* (Jan'21-Present)
- **Junior Research Fellow** | *Indian Institute of Technology Bombay* (Aug'20-Jan'21)
- **Teaching Assistant** | *NPTEL - Indian Institute of Technology Madras* (July'20-Dec'20)
- **Technology & Intellectual Property Division Head** | *KStudio Solutions Pvt. Ltd.* (Dec'16-Feb'20)
- **Intern** | *DesignTech Systems Ltd.* (Aug'16-Nov'16)
- **Graduate Student Teaching Assistant** | *G. H. Rasoni College of Engineering, Nagpur* (Aug'14-May'16)
- **Graduate Trainee** | *Mahindra & Mahindra Ltd.* (Jun'12-Jun'13)
- **Intern** | *Thermax Ltd.* (Jun'11-July'11)
- **Intern** | *Nuclear Power Corporation of India Ltd., Kakrapar* (Dec'10-Jan'11)

#### POR & EXTRA-CURRICULARS

- **Intellectual Property Trainer:** Training Students and common people on Intellectual Property (Mar'19-Present)
- **Certified Rock Climber** at Guardian Giripremi Institute of Mountaineering, Pune (Nov'17-Present)
- **City Lead Volunteer** at Let's Spread Love, Pune Chapter: Organized drives towards reaching out to under privileged kids to provide food, clothes and educational items like books, notebooks etc. Volunteer (Dec'17-Dec'18)
- **Petty Officer Cadet** at National Cadet Corps(NCC) (Jun'03-Mar'05)