

## **RESUME**



**i. Name of the applicant as per SSC records:** Dr. Tanmoy Rath

**ii. Postal address:** Dr. Tanmoy Rath, C/O – Syamapada Acharya, Vill. Jalalkhanbard, P.O. – Contai, Near JIO Office. Dist.- Purba Medinipur, 721401, West Bengal

**iii. Email id:** [tanmayrath@gmail.com](mailto:tanmayrath@gmail.com)

**iv. Land line & Cell phone numbers:** 6294514373 or 8348865568

### **Academic qualification**

Sl. No	Academic Degree	Name of the institute	Year of Passing	Pass percentage
1.	B.Sc	Midnapore College, Vidyasagar University	2001	65.62%, 1 <sup>st</sup>
2.	M.Sc	Vidyasagar University	2003	72.5%, 1 <sup>st</sup>
3.	Ph.D	IIT Kharagpur	2009	---

### **GATE/GRE/UGC-NET/SET qualifications**

CSIR-NET --- 2005

### **Experience in Industry & Educational institutions in chronological order.**

Sl. No.	Name and address of Employer	Designation	From	To	Brief description of duties	Reasons for leaving
1.	Motihari College of Engineering (Govt. Eng. College), Motihari, Bihar.	Assistant Professor	19.01.2018	30.09.2023	Teaching and research	Contractual
2.	Central Institute of Petrochemicals Engineering and Technology (CIPET), Bhubaneswar, Odisha formerly Central institute of Plastics Engineering and Technology (CIPET).	Assistant Professor	07.08.2013	06.08.2016	Teaching and research	Contractual

3.	National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan	Postdoctoral Research scientist	15.05.2009	31.03.2011	Research	---
4.	Korea Advanced Institute of Science and Technology (KAIST), Daejeon, South Korea.	Postdoctoral Research	17.05.2011	30.04.2012	Research	----

**❖ Sponsored Research Project Completed and ongoing as Principal Investigator (PI)/Co-PI**

**Project Title:**

**1. Development of Flexible graphene/polymer composites film for supercapacitor applications. (Completed)**

Sanctioned no. SR/FTP/ETA-16/2012

Agency: DST, Govt. of India

Period: 06.12.2012 to 05.03.2016 (3 Years 3 Months)

Amount: 24,62,000/- Lakhs

**Principal Investigator: Dr. Tanmoy Rath.**

**2. Facile synthesis and development of 3D-graphene/ WS<sub>2</sub>/oxydized-CNT nanohybrids as advanced electrode materials for high performance flexible supercapacitors. (Completed).**

Sanctioned no. DST/TMD/MES/2k18/180 (Stream A).

Date: 21.06.2019 to till Date

Agency: DST, Govt. of India

Amount: Rs. 56,01,992/- Lakhs

**Co-Investigator: Dr. Tanmoy Rath**

**3. Synthesis of hierarchical mesoporous WO<sub>3</sub>@MnO<sub>2</sub>/3D-RGO hybrid composite for high performance supercapacitor electrode (Completed).**

Sanctioned no. 1-5708294912

Date: 18.06.2019 - 30/06/2021

Agency: NPIU-MHRD, Govt. of India

Amount: Rs. 17,42,000/- Lakhs

**Principal Investigator(PI): Dr. Tanmoy Rath**

## ❖ Complete List of Research Publications

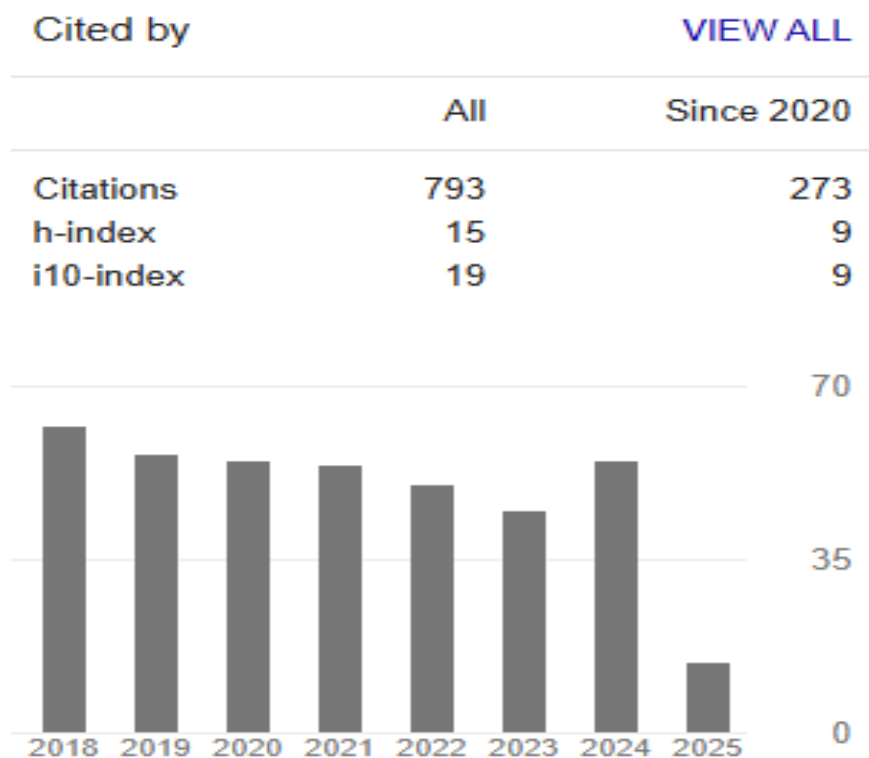
1. Fluorine-free Ionic Liquid Electrolyte enabling Na/K Co-Doped Graphene Oxide Electrodes for High-Temperature Supercapacitors. Gaurav Tatrari, **Tanmoy Rath**, **Energy Storage (Submitted)**
2. Upcycling waste plastic into 2D-carbon nanomaterial for high-performance supercapacitors by incorporating NiCo<sub>2</sub>O<sub>4</sub>: A sustainable approach to renewable energy, Diksha Bhatt, Mayank Pathak, Nishtha Thakur, Gaurav Tatrari, **Tanmoy Rath**, Zaher Judeh, Nanda Gopal Sahoo. **Materials Advances**. 2024, 5, 6255-6269. **Impact Factor = 5.2** <https://doi.org/10.1039/D4MA00469H>
3. Fabrication of co-continuous morphology of Polysulfone/Nylon 6,6 nanocomposites by varying the concentration of organically modified clay content. **Tanmoy Rath**, Ibrahim A. Alnaser, Asiful H. Seikh. **Journal of Thermoplastics Composites Materials**, 2025, 38(1), 3 - 19, **Impact Factor = 3.6** <https://doi.org/10.1177/08927057241270907>
4. Improvement of compatibility, thermal stability and mechanical properties of poly(phenylene oxide)(PPO) and liquid crystalline polymer(LCPA950) blends with epoxy containing acrylate rubber(ACM) as a compatibilizer. **Tanmoy Rath**, Asiful H Seikh, Hany S Abdo, Nilkamal Pramanik, **Journal of Thermoplastics Composites Materials**, 2023, Volume 37, Issue 8, 2680 – 2701, **Impact Factor = 3.6**. <https://doi.org/10.1177/08927057231217239>.
5. High electrochemical performance flexible solid-state supercapacitor based on Co-doped reduced graphene oxide and silk fibroin composites. **Tanmoy Rath**, Nilkamal Pramanik, Sandeep Kumar. **Energy** 2017, 141, 1982-1988. **Impact Factor = 9.4**. ISSN: 0360-5442. <https://doi.org/10.1016/j.energy.2017.11.126>
6. Polyhydroxybutyrate-co-hydroxyvalerate copolymer modified graphite oxide based 3D scaffold for tissue engineering application. Nilkamal Pramanik, Saurav Bhattacharya, **Tanmoy Rath**, Ranjan Kumar Basu, Patit Paban Kundu. **Materials Science and Engineering C** 2019, 94, 534 - 546. **Impact Factor = 8.1**. <https://doi.org/10.1016/j.msec.2018.10.009>
7. Fabrication of magnetite nanoparticles doped reduced graphene oxide grafted polyhydroxyalkanoate nanocomposite for tissue engineering application. Nilkamal Pramanik, P.P.Kundu, **Tanmoy Rath**. **RSC Advances** 2016, 6(52), 46116-46133. **Impact Factor = 4.6**. ISSN 2046-2069. DOI: <https://doi.org/10.1039/C6RA03233H>
8. “Reduced graphene oxide paper based nanocomposites materials for flexible supercapacitor.” **Tanmoy Rath**, P.P Kundu. **RSC Advances** 2015, 5(34), 26666–26674. **Impact Factor = 4.6**. ISSN 2046-2069. <https://doi.org/10.1039/C5RA00563A>
9. "Microbial degradation of linseed oil based elastomer and subsequent accumulation of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) copolymer". N. Pramanik, **Tanmoy Rath**, P.P. Kundu. **Applied Biochemistry and Biotechnology** 2014, 174(4), 1613-30. **Impact Factor = 3.1**. DOI: [10.1007/s12010-014-1061-5](https://doi.org/10.1007/s12010-014-1061-5)

10. “Nanocomposites based on polystyrene-b-poly (ethylene-r-butylene)-b-polystyrene and Exfoliated Graphite Nanoplates blend: Effect of Nanoplatelet loading on morphology and mechanical properties”. **Tanmoy Rath**, Yongjin Li. **Composites Part A: Applied Science and Manufacturing**, 2011, 42(12), 1995-2002. **Impact Factor = 8.9**. ISSN: 1359-835X. <https://doi.org/10.1016/j.compositesa.2011.09.002>
11. “Mechanical, morphological and thermal properties of *in situ* ternary composites based on poly (ether imide), silicone rubber and liquid crystalline polymer”. **T. Rath**, S. Kumar, R. N. Mahaling, B. B. Khatua, C. K. Das and S. B. Yadaw. **Materials Science and Engineering A**, 2008, Volume 490, Issues 1-2 : 198-207. **Impact Factor – 7.0**. ISSN: 0921-5093. <https://doi.org/10.1016/j.msea.2008.01.076>
12. “Flexible composite of PEEK and Liquid Crystalline Polymer in Presence of Polyphosphazene”. **T. Rath**, S. Kumar, R. N. Mahaling, M. Mukherjee, K. N. Pandey, A. K. Saxena, C. K. Das, **Journal of Applied Polymer Science** 104:3758–3765(2007). **Impact Factor = 2.8** ISSN: 0021-8995. <https://doi.org/10.1002/app.25934>
13. “Processing and characterization of carbon nanofiber/syndiotactic polystyrene reinforced composites in the absence and presence of Liquid crystalline polymer”. S.Kumar, **T.Rath**, C.K.Das. **Composites Part A: applied science and manufacturing** 38:1304–1317(2007). **Impact Factor = 8.9**. ISSN: 1359-835X. <https://doi.org/10.1016/j.compositesa.2006.11.006>
14. “Study on mechanical, morphological and electrical properties of carbon nanofiber/polyetherimide composites”.S. Kumar, **T. Rath**, R.N. Mahaling, C.S.Reddy, C.K. Das, K.N. Pandey, S.B. Yadaw. **Materials Science and Engineering B** 141: 61–70(2007). **Impact Factor = 4.6**. ISSN: 0921-5107. <https://doi.org/10.1016/j.mseb.2007.06.002>
- 15.“The flexible PEI composites”.**T.Rath**, S.Kumar, R.N.Mahaling, M.Mukerjee, C.K.Das. **Polymer Composites** 27: 533-538 (2006). **Impact Factor = 4.7**. ISSN: 0272-8397. <https://doi.org/10.1002/pc.20223>
16. “In Situ Reinforcement of Poly (butylene terephthalate) and Butyl Rubber by Liquid Crystalline Polymer”. S. Kumar, **T. Rath**, R. N. Mahaling, C. K. Das, R. B. Srivastava, S. B. Yadaw. **Polymer Composites** 30(5): 655-664 (2009). **Impact Factor = 4.7**. ISSN: 0272-8397. <https://doi.org/10.1002/pc.20634>
17. “Multi-walled carbon nanotubes/pol/ymer composites in absence and presence of acrylic elastomer (ACM)”.S.Kumar, **T.Rath**, R.N.Mahaling, B.B.Khatua, C.K.Das. **Journal of Nanoscience and Nanotechnology** 9: 2981-2990 (2009). **Impact Factor = 1.354**. ISSN: 1533-4880. <https://doi.org/10.1166/jnn.2009.012>
18. Preparation and Characterization of Poly(methyl methacrylate)/Multi-Walled Carbon Nanotube Composites. S. Kumar, **T.Rath**, A.Dhibar, B.B.Khatua, C.K.Das. **Journal of Nanoscience and Nanotechnology** 9: 4644-4655 (2009). **Impact Factor = 1.354**. ISSN: 1533-4880. <https://doi.org/10.1166/jnn.2009.220>

19. "Mechanical and morphological study of PPS/LCP blends compatibilized with a maleic anhydride grafted copolymer". **T. Rath**, S. Kumar, R. N. Mahaling, S. B. Yadaw and C. K. Das, **Journal of Applied Polymer Science** **106**: 3721–3728 (2007). **Impact Factor = 2.8**. ISSN: 0021-8995. <https://doi.org/10.1002/app.27047>
20. "Effect of Clay Platelet dispersion as affected by the manufacturing techniques on Thermal and Mechanical Properties of PMMA/Clay Nanocomposites". A. K. Dhibar, S. Mallick, **T. Rath** and B. B. Khatua. **Journal of Applied Polymer Science** **113**: 3012-3018 (2009). **Impact Factor = 2.8**. ISSN: 0021-8995. <https://doi.org/10.1002/app.30420>
21. "Effect of polyphosphazene Elastomer on the properties of blend of Nylon 66 and Thermotropic Liquid Crystalline Polymer (Vectra A950)". S. Bose, M. Mukherjee, **T. Rath**, C. K. Das. A. K. Saxena. **Journal of Reinforced Plastics and Composites** **28**(2): 157-166 (2009). **Impact Factor = 2.3**. ISSN: 0731-6844. <https://doi.org/10.1177/0731684407084121>
22. "Effects of Rubber/Filler Interaction on the developments of Physical, Mechanical and Interfacial Properties of Vamac/ Silica Nanocomposites", R.N. Mahaling, S. Kumar, **T. Rath** and C. K. Das, **Journal of Elastomers and Plastics** **39**: 253-268 (2007). **Impact Factor = 1.4**. ISSN: 0095-2443. <https://doi.org/10.1177/0095244307076495>
23. "Acrylic elastomer/filler nanocomposite: effect of silica nanofiller on thermal, mechanical and interfacial adhesion". R. N. Mahaling, S. Kumar, **T. Rath** and C. K. Das. **Plastics, Rubber and Composites** **36**: 267-273 (2007). **Impact Factor = 2.1**. ISSN: 1465-8011. <https://doi.org/10.1179/174328907X191459>
24. Self-reinforcing composites based on ethylene acrylic elastomer (Vamac B124/TLCP). S. Kumar, T. Rath, R.N. Mahaling, C.S. Reddy and C.K. Das. **Kauchuk I Rezina**. **3**:2-8 (2006). **ISSN: 0022-9466**.
25. "Mechanochemical Recycling of Sulfur Cured Gum Natural Rubber" G.K. Jana, **T. Rath**, A. Kozłowska, M. Kozłowski and C. K. Das. **Polimery** **52**(2), 131 – 136, (2007). **Impact Factor = 1.528**. ISSN: 0032-2725. DOI: [10.14314/polimery.2007.131](https://doi.org/10.14314/polimery.2007.131)
26. "Simulation of Fiber orientation in PC/LCP blends". **T. Rath**, C.K. Das, S. Alam, T. N. Chung, G. Mennig. **Journal of Polymer Materials** **25**(3):293(2008). **Impact Factor = 0.355**. ISSN: 0970-0838.

## Google Scholar Citation

(<https://scholar.google.co.in/citations?user=Lu4tmrMAAAAJ&hl=en> )



### ❖ Conference Presentations:

1. “Reduced graphene oxide based electrode materials for high performance supercapacitor”. **Tanmoy Rath**, 2<sup>nd</sup> International conference on Nanotechnology (ICNT 2015). February 19-22, 2015 at Haldia Institute of Technology, Haldia, West Bengal, India.
2. “Flexible energy storage device based on Graphene nanocomposites as a supercapacitor electrode”. **Tanmoy Rath**, International Conference on ‘Advancements in Polymeric Materials’ (APM 2014) – Trends & Technology. February 14-16, 2014, CIPET, Bhubaneswar, India.
3. “Preparation of polysulfone/polyamide/Mica Nanocomposites Using High-Shear Processing”. **Tanmoy Rath**, Yongjin Li, Hiroshi Shimizu, 26th Annual Meeting of the Polymer Processing Society July 4-8, 2010, University of Calgary, Alberta, Banff, Canada.
4. “Study on Thermal, Morphology and Electrical Characteristics of Acrylonitrile-butadiene-styrene (ABS)/CNT Nanocomposites in presence and absence of Liquid crystalline polymer” **Tanmoy Rath**, C. K. Das and S. B. Yadaw. Chemical Congress – 2008, May 23 – 25, 2008. Tribhuvan University, Kathmandu, Nepal.

5. “Studies on blends of PPO/LCP in presence and absence of epoxy containing acrylate rubber.” **Tanmoy Rath**, C. K. Das and S. B. Yadaw, 9<sup>th</sup> Arab International Conference on polymer Science and Technology. 18-22 November, 2007. Cairo Univrsity, Cairo, Egypt.
6. “Fibrillation study in sPS-LCP blends as affected by the processing parameters”. **Tanmoy Rath**, K. Banik, T. N. Chung, G. Mennig and Chapal Kr. Das. Polychar-14, Nara Women's University in Nara City, JAPAN, April 17<sup>th</sup>-22<sup>nd</sup>, 2006.
7. “Blends of a Thermotropic Liquid-Crystal Polyester With Poly (Ether Sulfone)”, **Tanmoy Rath**, S. B. Yadaw and C. K. Das. ETPST, (2006), 8-9 Sept. 2006, Indian Institute of Technology, Kharagpur, India.
8. “In-situ fibrillation of liquid crystalline polymer in the presence of Ethylene Acrylic elastomers”. S. Kumar, **Tanmoy Rath**, R.N. Mahaling, C.S. Reddy, C.K. Das, K.N. Pandey and S. B. Yadaw. (Published in proceeding of IFC 2006, **Seoul National university, Korea. pp 109-110**).
9. “The Flexible PEI composites” **Tanmoy Rath**, K.N. Pandey, A.K. Saxena, K.U.B. Rao, C. K. Das. 19<sup>th</sup> Rubber Conference, December 2005, IRMRA, 19 – 20<sup>th</sup> Dec., 2005 Mumbai, India Scientific:

## ❖ Book/Book Chapter:

1. **Thermoplastics-LCP composites: Effect of Compatibilizers. Tanmoy Rath. ISBN: 978-3-659-32438-3. Published by Lambert Academic Publishing Company. Omni Scriptum S.R.L. 120 High Road, East Finchley London, N2 9ED, United Kingdom Publication, Date: 22/04/2013.**
2. **Polymer Nanocomposites based on Inorganic and organic Nanomaterials: Chapter 3: Carbon Nanofibers: Synthesis, Properties and Applications. Tanmoy Rath. ISBN: 978-1-1191-7910-8. Wiley, Scrivener Publishing, USA), Date: 3<sup>rd</sup> July 2015.**
3. **Handbook of Vinyl Polymers: Radical Polymerization, Process, and Technology, Second Edition. Chapter 17: Vinyl Polymers and it's Special Uses, pp. 545 - 602, (Taylor and Francis) Publisher CRC, USA, C. K. Das , T. Rath, S. Kumar, ISBN: 978-0-8247-2595-2, Publication Date: 07/24/2008.**
4. **“Quantum Dots: properties and Applications”. Chapter: Quantum Dots Based Materials for New Generation Supercapacitors Application: pp 216-250, ISBN: 978-1-64490-1250-9, Gaurav Tatrari, Manoj Karakoti, Mayank Pathak, Tanmoy Rath, Nanda Gopal Sahoo. Materials Research Forum LLC, USA. 2/1/2020.**
5. **“Biomechanics and Functional Tissue Engineering”, Chapter 8: Current Scenario of Regenerative Medicine: Roll of Cell, Scaffold and Growth Factor. Nilkamal**

Pramanik and **Tanmoy Rath**. ISBN: 978-1-83880-286-8, Intech Open Rijeka: Janeza Trdine 9, 51000 Rijeka. Croatia. 24<sup>th</sup> November 2021.

6. “Properties and Applications of Graphene Nanosheets”, **Chapter 6: Graphene based metal/metal oxide nanocomposites**, **Tanmoy Rath**, Nova Science Publishers, Inc. 415 Oser Avenue, Suite N Hauppauge, NY, 11788 USA, 2024. ISBN: 979-8-89530-037-4.

## **Course Taught**

<b>Name of the course</b>	<b>Level (UG/PG)</b>
Polymer Nanomaterial processing Technology	PG(M.Tech)-PNT-1 <sup>st</sup> semester
Nanomaterial & nanotechnology	PG(M.Sc Tech)5 <sup>th</sup> Semester
Polymer Nanocomposites	UG (B.Tech)7 <sup>th</sup> Semester
Fundamental of Polymer Science	UG (B.Tech)3 <sup>rd</sup> Semester
Nanostructured Materials	PG (M.Sc)2 <sup>nd</sup> Semester
Chemistry	UG(B.Tech) 1st and 2nd Semester

### **❖ Participation in Conferences/Seminars/Workshops of two days and more.**

#### **(a) Faculty Development Program**

- i. “Professional Development Training” under TEQIP-III, organized by IIM Kashipur, Uttarakhand. February 05<sup>th</sup> - 09<sup>th</sup>, 2018.
- ii. “Faculty Induction Program” Under TEQIP-III, organized by IIT Kanpur. February 09<sup>th</sup> to 13<sup>th</sup> 2018.

#### **(b) Refreshers Course through SWAYAM (ARPIT)**

- i. Nanotechnology, Science and application--- 29<sup>th</sup> July 2019 to 29<sup>th</sup> September 2019 (08 weeks)

#### **(b) Short Term Course (STC)**

- i. “Artificial Intelligence and Optimization” organized by MCE, Motihari and NITTTR, Chandigarh, 21<sup>st</sup> -25<sup>th</sup> January 2019.



### **(c) Workshops**

- i.** Participated in one day Workshop on “**Intellectual Property Rights & Patent Filing**”. Loknaya Jai Prakash Institute of Technology (LNJIPT), Chapra, Bihar in association with SPIU Bihar. 30<sup>th</sup> November 2018.
- ii.** Participated in five days training workshop on “**Advance Pedagogy and Digital Tools**”. Organized by Dept. of Management Studies and Dept. of Civil Engineering, IIT Roorkee. 17<sup>th</sup> to 21<sup>st</sup> June 2019.
- iii.** Participated in Two Days Online Workshop on “**Outcome Based Education (OBE) & Preparedness for NBA Accreditation**” Organized by State Project Implementation Unit, Bihar (SPIU Bihar) under TEQIP-III Project on 29-30th May 2020.
- iv.** Participated in e-Workshop on “**Electrochemical Energy Storage Devices**”, organized by Dept. of Chemical Engineering, IIT Delhi, 07<sup>th</sup> to 11<sup>th</sup> December 2020.

### **❖ Thesis Guided(PG):**

<b>Name of the Scholar</b>	<b>Title of the Thesis</b>	<b>Awarded (Yes/ No)</b>	<b>Name of the University</b>	<b>Month and Year</b>
MR. VIJAY KUMAR - REG. NO. 1207108026 M.Tech	Development and characterization of PET /nanoplatelet graphene (xgnp) composites.	Yes	Central Institute of Plastics Engineering and Technology (CIPET), Biju Patnaik University, Rourkela, Orissa.	09/01/2015
MS. NAMRATA SARKAR – REG. NO. 1307108008 M.Tech	Development of polymer nanocomposites based on polyurethane and nanoplatelet garphene.	Yes	Central Institute of Plastics Engineering and Technology (CIPET), Biju Patnaik University, Rourkela, Orissa	30/09/2015
MR. ALOK SONI - REG. NO. 1307108002 M.Tech	Modified clay (closite 93 A) reinforced polyurethane nanocomposites.	Yes	Central Institute of Plastics Engineering and Technology (CIPET), Biju Patnaik University, Rourkela, Orissa	30/09/2015
MR. RAMJEE CHAUDHARI - REG. NO. 1407108032 M.Tech	Study of mechanical properties of HDPE material with modified fly ash at different compositions	Yes	Central Institute of Plastics Engineering and Technology (CIPET), Biju Patnaik University, Rourkela,	28/07/2016

			<b>Orissa</b>	
MR. JITENDRA SINGH – <b>REG. NO. 1407108030</b> M.Tech	Evaluation of flexural properties of fly ash filled polypropylene composites.	Yes	Central Institute of Plastics Engineering and Technology (CIPET), <b>Biju Patnaik University Rourkela, Orissa</b>	28/07/2016
MR. IMDADUL HOQUE – <b>REG.NO. 57476/10</b> <b>M.Sc Tech</b>	Preparation and characterization of bentonite clay reinforced LLDPE film.	YES	Utkal University, Bhubaneswar	23/12/2015
MR. BISHNU CHOWDHURY - <b>REG. NO. 57474/10</b> <b>M.Sc Tech</b>	Preparation and characterization of bentonite clays reinforced guar gum bionanocomposites film	YES	Utkal University, Bhubaneswar	21/12/2015

### ❖ Administrative Work

Sl. No.	Name and address of Employer	Responsibility	From	To
1.	Motihari College of Engineering, (Govt. Engineering College) Motihari, Bihar, 845401.	HoD (Head of Department), Department of Chemistry.	01.04.2021	30.09.2023
2.	Motihari College of Engineering, (Govt. Engineering College) Motihari, Bihar, 845401.	Institute Co-ordinator of Employability Skill Training for B.Tech students.	30.08.2018	30.09.2021
3.	Motihari College of Engineering, (Govt. Engineering College) Motihari, Bihar, 845401.	Co-ordinator of establishment of new chemistry lab (B.Tech + Research).	For the academic year 2022 - 2023	
4.	Motihari College of Engineering, (Govt. Engineering College) Motihari, Bihar, 845401.	Prepared course file for National Board of Accreditation (NBA) in MCE, Motihari.	01.06.2018	30.09.2023

## ❖ **Honors and Awards:**

- Bronze Medal from Midnapore college for 1<sup>st</sup> class in B.Sc examination in 2001
- Fast Track young scientist award for the year 2012 -2016 from DST, Govt. of India. This award contained a three years independent project (i.e. under own principal investigatorship) to implement a few innovative ideas on Supercapacitor research in India.

## ❖ **Journal Reviewer:**

- i. Applied Physics A
- ii. Sensor and Actuator B
- iii. Synthetic Metals
- iv. Diamond and related Materials.
- v. Materials Research Express
- vi. Advance Engineering Materials
- vii. Materials Today Communication
- viii. Nanotechnology

## ❖ **Personal Information:**

**Fathers' Name** : Late Phanibhusan Rath  
**Date of Birth** : 20<sup>TH</sup> September, 1978  
**Gender** : Male  
**Nationality** : Indian  
**Marital Status** : Married  
**Languages Known** : English, Hindi, Bengali

Tanmoy Rath