

Name: Mr Arka Banerjee

Department: Mechanical Engineering

Contact Nos.: 8159086825

Qualifications: M.E

Designation: Assistant Professor

VIDWAN ID: 187846

Experience (Teaching/ Research/ Industry, in years): Teaching- 7 years

Date of Joining at the Present Institution: 12.01.2016

Examinations Cleared: GATE

Qualifications Summary (Reverse chronological order):

Degree	Institute	From - To	Subjects
Ph.D. (Pursuing)	National Institute of Technology, Durgapur	July, 2019-present	Mechanical Engineering
M.E	Indian Institute of Engineering Science & Technology, Shibpur	June, 2012- May, 2014	Mechanical Engineering (Specialisation- Machine Design)
B.Tech	Durgapur Institute of Advanced Technology & Management (affiliated to WBUT)	August, 2008-June, 2012	Mechanical Engineering

Experience Summary (In chronological order):

Designation	Organization	Date From - Date To
Assistant Professor	Durgapur Institute of Advanced Technology & Management, Durgapur	15.06.2014-11.01.2016
Assistant Professor	Dr. B.C. Roy Engineering College, Durgapur	12.01.2016-Present



Specialization/Research Interest:

Mechanical Behaviour of Materials, Fluid Mechanics

Awards & Recognitions

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

1. AICTE scholarship in time for M.E (2012-2014)
2. NPTEL certificate of appreciation as a MENTOR (July-October, 2018)

Courses taught:

B.Tech:

Theory: Engineering Mechanics, Materials Science, Machine Design, Principles and Practices of Management, Production & Operations Management, Advanced Manufacturing Technology, CAD/CAM

Lab: Engineering Drawing Lab, Machine Drawing Lab, Mechatronics Lab.

Online Mode of Teaching:

Lecture notes via Gmail, Google drive, YouTube.

Publications:

Journal:

1. **Arka Banerjee**, Parthapratim Dey, S. Sivaprasad, Kaustav Barat, "An Experimental Analysis of Low Cycle Fatigue Behavior of Superalloy Inconel 718 at High Temperature" "International Journal of Applied Engineering Research", Volume 9, Number 5 (2014), pp. 545-551, ISSN 0973-4562.

Link:- https://www.ripublication.com/ijaer_spl/ijaerv9n5spl_08.pdf

Scopus Link- <https://www.scopus.com/sourceid/21100217234?origin=resultlist>

UGC approved list:- https://www.ugc.ac.in/pdfnews/5283580_UGC-Cancelled-List.pdf

(No- 64529)

2. **Arka Banerjee**, Kaustav Barat, "Cyclic Plastic Deformation and Softening Behaviour of Inconel 718 at High Temperature" The Bulletin of Engineering & Science, ISSN 0974 7176, Vol 8, No 1 (2017).

Book:

1. **Arka Banerjee**, Rajeev Ranjan, "Cyclic Plasticity in Superalloys: An Experimental Approach". Lambert Academic Publishing, 2018, ISBN- 978-613-9-82109-9.

2. **Arka Banerjee**, Rajeev Ranjan, "Glass Fibre Reinforced Composite: Fabrication and Experimental Analysis of Mechanical Properties", Lambert Academic Publishing, 2019, ISBN- 978-3-659-16133-9.

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

B.Tech Projects:

1. Sourav Kumar Jha (12001313082), Subhajit Adhikary (12000714151), Subrata Mahata (12000714152), Supervisor- **Arka Banerjee**, "AN EXPERIMENTAL ANALYSIS OF ELASTIC BEHAVIOUR OF AISI 1020HR STEEL UNDER TENSILE LOADING", 2017.
2. Sayan Bera (12000714098), Shahjahan Alam (12000714099), Sharad Kumar (12000714100), Shashank Shekhar Pathak (12000714101), Shibsankar Bera (12000714102), Shubham Agrawal (12000714103), Shubham Mukherjee (12000714104), Shubham Saurabh (12000714105), Siddhartha Sajjan (12000714106), Sitesh Kumar (12000714107), Sourav Mondal (12000714108), Supervisors- **Arka Banerjee & Rakesh Biswas**, "Fabrication And Experimentation With Tiny Horizontal Axis Wind Turbine", 2018.
3. Tabish Zishan Khan (12000715118), Tanveer Alam (12000715119), Tushar Das (12000715120), Vikash Kumar (12000715121), Vishal Narayan (12000715122), Vivek Kumar (12000715123), Vivek Kumar Rana (12000715124), Vivek Kumar Singh (12000715125), Veer Pratap Singh (12000716001), Tamoghna Ganguly (12000716003), Taj Mahammad (12000716004), Swarnak Halder (12000716005), **Arka Banerjee & Rakesh Biswas**, "Fabrication And Testing Of Glass Fibre Reinforced Composite", 2019.
4. Arojeet Das (12000716137), Arijit Karmakar (12000716138), Arijit Bose (12000716139), Anwesha Chakraborty (12000716140), Anupam Chatterjee (12000716142), Anubhav (12000716143), Anran Kalindi (12000716144), Ankit kumar Yadav (12000716145), Aniruddha Sadhukhan (12000716146), Animesh Santra (12000716147), Anand Sagar (12000716148), Amit Vsiwakarma (12000716149), Akash Kumar (12000716150), Ajit Kumar Mahto (12000716151), Ajay Kumar (12000716152), Adnan Hashmi (12000716153), **Arka Banerjee & Rakesh Biswas**, "Design & Manufacture of Biogas Plant using Kitchen Waste", 2020.
5. ABHISHEK NANDY (12000717125), MUJIBAR RAHAMAN KHAN (12000717083), SUBHODIP SARKAR (12000717037), MANISH KUMAR (12000717092), GOPAL RANJAN (12000718024), **Arka Banerjee**, "Solving of 2-Dimensional Problems in Fluid Dynamics using Finite Difference Technique", 2021.

Invited Lectures: None

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

1. E-Sodh Sindhu Web of Science Certification Series, Five Day Online Workshop, 2020, Organised by e-ShodhSindhu (An Initiative by MHRD, Govt of India).

2. Celebrate Biodiversity and Environment, One Day Webinar, 2020, NSS Cell, Organised by Dr. B.C. Roy Polytechnic
3. Global Online Learning Platforms & Future of Jobs, One Day Webinar, 2020, Organised by Indiaspark.
4. "Scope of Research Post Covid-19", One Day Webinar, 17th July, 2020, Organised by Dr. B.C. Roy Polytechnic.
5. "R & D Opportunities in the Country - A case Study on Microwave Tubes", 30th January, 2021, Organised by Dr. B.C. Roy Engineering College.

Participation in faculty development programmes

1. Teaching & Learning Skill Development, , Face-to-face, 22nd August, 2019, Organized by IEEE, Student Branch & IEL, Student's Chapter, BCREC
2. Moodle Learning Management System, Online, 21-04-2020 to 25-04-2020, 2020, Five Day FDP Program, Organized by Dr. B.C. Roy Engineering College
3. International Online Faculty Enrichment Programme on "Tips & Tricks for Publishing in International Scientific Journals", Online, 20th June, 2020, One day FDP, 2020, Organized by Department of Zoology, Chemistry, Botany & Physics (Under DBT-Star College Strengthening Scheme, Govt. of India), Surendranath College, Kolkata.
4. FDP - TCS, Online, 26th June, 2020, One Day, "Python and it's application in Robotics", Organised by Dr. B.C. Roy Engineering College, Durgapur.
5. Two Days Faculty Development Programme, 3rd July to 4th July, 2020, "Emerging Trends In Mechanical Engineering" organized by the Department of Mechanical Engineering, Dr. B. C. Roy Polytechnic, Durgapur.
6. AICTE Training And Learning (ATAL) Academy Online FDP, 24.08.2020 to 28.08.2020 on "Blended Learning and Flipped Classroom", Organised by JIS College of Engineering.
7. AICTE Sponsored Five Day Online FDP, 13-17 March, 2021, Fundamentals and Applications of Computational Fluid Dynamics in Fluid-Thermal Systems, Organised by Department of Mechanical Engineering, National Institute of Technology Silchar, Assam - 788010.

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

1. Intra College Wall Magazine Competition 2018, 2019
2. Annual Sports , 2017-2019
3. Orientation Day Programme, 2016-2019
4. " Ekotai Sampriti" event mentor and participant 2018 at Srijani Auditorium.
5. Rabindra Jayanti, 2019

Participation in administrative committees (selected)

1. Member, Wall Magazine Committee, 2018, 2019.

2. Member, Departmental Feedback Committee, Dept. of Mechanical Engineering, 2020.
3. Member (2016), Joint Convener (2017, 2018), Convener (2019), Departmental Help Desk, ME
4. Member (2017, 2018, 2019), Annual Sports Student Registration Committee.
5. Member, Cultural Committee, Rabindra Jayanti Programme
6. Member, Training & Placement Execution Committee.

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

None

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

International Association of Engineers (Member Number: 191044) since 29th May, 2017.