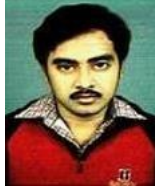


SOUMYA GHOSH



Personal Details: -

Date of Birth : 11th Oct, 1985

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PAN : BDAPG8045D

Aadhaar No. : 736296722820

Brief Overview: -

- Now working at SWAMI VIVEKANANDA UNIVERSITY as an Asst. Professor (Coordinator) in Mechanical Dept. from 1st September onwards.
- Working at ADAMAS UNIVERSITY as an Asst. Professor in Mechanical Dept. from 13th July 2018 to 31st August, 2021
- Working at DIATM Durgapur (B.Tech College) as an Assistant Professor in Mechanical Dept. From 13th February 2012 to 12th July 2018
- Working at CSIR-CMERI Durgapur as a Project Asst. From 26th December 2010 to 7th February 2012
- Started part time PhD in NIT Durgapur in the topic of “**Experimental studies on thermal performance Enhancement of Solar Air Heater with novel Hybrid Tape using different geometrical shapes in circular & Non circular pipes**” (Registration Process is Completed on 27/09/2022)
- Completed M.Tech (Design & Production) From National Institute of Technology (Durgapur) in the year of 2016.
- Completed* B.Tech. In Mechanical Engineering from West Bengal University of Technology in 2010.

Educational qualifications: -

School name	Examination	Board	Year of passing	
Bharati High School	Madhyamik(10 th)	West Bengal board of secondary education.	2001(Marks-60.75%)	
COLLEGE NAME	EXAMINATION PASSED	BOARD	YEAR OF PASSING	(%) OF MARKS
NIT (Durgapur)	M.Tech (Design & Production).	NIT	2016	CGPA= 7.80
Seacom Engineering	B.Tech(Mechanical)	WBUT	2010	DGPA=8.28(Degree Grade Point Avg.)
B.P.C. Institute of Technology	Diploma	WBSCTE	2007	74.3%

Innovative Project done during B.Tech & MTech courses:-

- In Cutting Tool Modification & Cutting Force Analysis (B.Tech).
- Scope for using underutilized Hydraulic sources a Re-emphasis on role of Hydrant(M.Tech)
- Few of the students completed their project model under the guidance of me which is presented in the Young Entrepreneur Summit Pune-2019
- Fabricate the Abrasive Jet Machining Set Up under the guidance of me in our Central Workshop Under the University Level Cast Tone Project Category (University Funded Project).
- “Commercialized Implementation of Hydraulic Ram Pump System”-Students Project Presentation in 5th International Level IEEE Project Competition-2021 Under the guidance of me.

Conference Paper Presentation: -

- Soumya Ghosh, “Scope for using underutilized hydraulic sources a Re-emphasis on the role of Hydrant” present a paper in National Conference name “Enabling Sustainable Development in Mechanical Engineering in the context of Make in India” organized by DIATM, on 3-5 April 2017.
- Soumya Ghosh, “Renewable Energy (Hydraulic Ram pump) used in poor and remote communication in hilly region” present a paper in National Conference name “Enabling Sustainable Development in Mechanical Engineering impact of environment” organized by DIATM, on 2-4 March 2018.
- Conference Proceedings “CFD Study on Structural Parameters of Airwing based on NACA 2412 Profile using Different Composite Material” International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181.

List of Publication (Journal):- i) “Effects of a novel hybrid turbulator tape on the thermohydraulic performance and irreversibility of a solar air heater” February 2024 Case Studies in Thermal Engineering DOI: <https://doi.org/10.1016/j.csite.2024.104132>, published Date- March 2024.

ii) “Heat Transfer Augmentation in a Mini-channel Using Magnetic Nanofluid and Magnetic Vortex” In book: Advances in Computational Heat and Mass Transfer, DOI: http://dx.doi.org/10.1007/978-3-031-66609-4_1, Published Date: September 2024

iii) “Scope for using underutilized hydraulic sources a Re-emphasis on the role of Hydram” Soumya ghosh et.al. Int.Journal of Engineering Research and Application ISSN: 2248-9622, Vol.8, Issue7(part-I) July 2018, pp 42-47. DOI: 10.9790/9622-080701424742

iv) “Performance Characteristics for a Pelton Wheel-Case Study” Int. journal of Engineering Research and Application ISSN: 2248-9622, Vol.11, Issue 1 (Series-II) July 2018, pp 12-16. DOI: 10.9790/9622-1101021216

v) “CFD Study of Elbow Draft Tube to Increase the Pressure Energy at the Outlet of the Reaction Turbine Using Different Geometrical Configurations” Int. journal of Engineering Research & Application ISSN:2248-9622, Vol.11, Issue 6 (Series-IV) July 2021, pp. 23-30. DOI: 10.17577/IJERTCONV9IS11068

vi) “A CFD study on the structural parameters of NACA 2412 airfoil-based air-wing using different composite materials “Elsevier, Material Today: Proceeding. DOI: <https://doi.org/10.1016/j.matpr.2021.10.025>

vii) “Entropy analysis for two-dimensional double diffusive mixed convective flow of a Williamson nanofluid through a porous medium” Numerical Heat Transfer, Part B: Fundamentals (SCI) DOI: <https://doi.org/10.1080/10407790.2024.2329256> published date-28/03/2024.

viii) “Experimental Analysis of Cutting Forces Under Different Machining Parameters and Carbide Inserts During Turning of Hardened AISI 4340 Steel” Soumya ghosh et.al. Journal of Polymer & Composites (Scopus) ISSN: 2321-2810, DOI (Journal): 10.37591/JoPC, Published Date: November 30, 2022

ix) “Damage Localization in a Beam by Lifting Wavelet Scheme and Photographic based Experimentation” Journal of Mines, Metals & Fuels (Scopus) DOI: <https://doi.org/10.18311/jmmf/2023/43926> Published Date-24/05/2024.

x) “CoO Substituted Borate 1393B3 Glass Scaffold with Enhanced Metallurgical Performance” Journal of Mines, Metal & Fuels (Scopus) DOI: <https://doi.org/10.18311/jmmf/2023/43176> Published Date-24/05/2024.

List of Publication (Book Chapter): i) “Introduction to enhanced heat transfer” Nova publication ISBN No. 978-1-68507-459-3-Hand book of Research on Heat transfer. Date-20/12/2021. DOI: <http://dx.doi.org/10.52305/CVRY6117> (Book Chapter)

ii) “Investigation of the influence of novel hybrid tape on thermohydraulic characteristics in a solar air heater: An Experimental Study” paper has been shortlisted for consideration for the special issue of the Journal: Heat Transfer Engineering, published by Taylor and Francis (SCI). This journal has an impact factor of 2.172. DOI: http://dx.doi.org/10.1007/978-981-19-6270-7_91 (Book Chapter)

List of Patent (INDIA):- i) Title of the invention- Solar Powered Automated Rooftop shielding Mechanism. Date of Publication-29/07/2022, Name of the applicant-Sawmi Vivekananda University, Name of the Inventor-Soumya Ghosh. Application No.-202231038246A.

ii) Title of the invention- Hydraulic Ram Pump System for water lifting in hilly region. Date of Publication-29/07/2022, Name of the applicant-Sawmi Vivekananda University, Name of the Inventor-Soumya Ghosh, Application No.- 202231035645A

iii) Title of the invention- HUMOBOT-Multiple robot assistant in post pandemic, Name of the applicant- Swami Vivekananda University, Name of the Inventor-Soumya Ghosh. Application No202231038993 A ii. Title of the invention- Smart Solar Grass Cutter, Name of the applicant-Swami Vivekananda University, Name of the Inventor-Soumya Ghosh. Application No202231038992 A

iv) Title of the invention – Solar Powered Automatic Tobacco/ non tobacco products vending machine, Name of the applicant- Swami Vivekananda University, Name of the Inventor- Soumya Ghosh. Application No202431024111 A.

v) Title of the Invention-Solar Air Heater, Name of the applicant- Swami Vivekananda University, Name of the inventor-Soumya Ghosh, Application no- 202431028487A.

vi) Title of the Invention- Mini Hydraulic Jack: Compact Solution for Lifting & Support, , Name of the applicant- Swami Vivekananda University, Name of the inventor-Soumya Ghosh, Application no- 202431060077A

vii) Title of the Invention- Harnessing Hydro Energy on a small scale: Portable Mini Hydropower plant, , Name of the applicant- Swami Vivekananda University, Name of the inventor-Soumya Ghosh, Application no- 202431060513A

viii) Title of the Invention- Safe Guard: Gas Leakage Detection & Protection System for home & Industries Name of the applicant- Swami Vivekananda University, Name of the inventor-Soumya Ghosh, Application no- 202431064477A

Seminar & FDP Attended: -

- At “MECHANICS OF COMPOSITE AND FUNCTIONALLY GRADED MATERIALS (MCFGM-2013)”, NIT-DURGAPUR (5Days).
- Two-week ISTE WORKSHOP on Engineering Thermodynamics conducted by IIT, Bombay
- Two-week Faculty Development Program conducted by DIATM Rajbandh.
- “Enabling Sustainable Development in Mechanical Engineering in the context of Make In India” conducted by DIATM Rajbandh and also present a research paper of “Scope for using underutilized Hydraulic sources a Re-emphasis on role of Hydram”.
- Two Faculty Development Programs under QIP on ‘Idea Conceptualization through Additive/Subtracting Manufacturing Methods’ conducted by IIT, Roorkee.

Membership In Professional Bodies: - i) SAEINDIA Annual Membership.

ii) IAENG Lifetime Membership

Honours and Awards: -

- BEST TEACHER AWARD in 2017 in DIATM Durgapur
- BEST PAPER AWARD in 2021 in NCETER-2021-PAPER ID-21A TRACK-4 (MECHANICAL AND ELECTRICAL INTEGRATION) in JIS University.

Research Exposure: -

Company	Service period	Job Description
CSIR-CMERI	26/12/2010 to 7/02/2012	Destructive testing, Inspection, Quality control & as well as project assistant in the project of FATIGUE ANALYSIS .

Teaching Exposure: -

College	Affiliated University	Job Description
Durgapur Institute of Advance Technology & Management	A.I.C.T.E & W.B.U.T	I am working at DIATM (B.Tech college) as an Asst. Professor. Already I teach the subject of Engineering Mechanics, Engineering Thermodynamics, Strength of Material, Fluid Mechanics, Fluid Machine, Machine Design, Machine Drawing, Mechanism, Dynamics of machine etc & this subject's related lab and I have been involved so many administrative works in Departmental, level as well like, <ul style="list-style-type: none">➤ Departmental NACC Co-Ordinator➤ Time Table Co-Ordinator➤ Departmental events coordinator.➤ Member of Departmental Admission committee.➤ Mechanical Workshop Coordinator. etc.
ADAMAS UNIVERSITY	UGC	I am working at ADAMAS UNIVERSITY as an Asst. Professor. I teach the subject of Engineering Mechanics, Engineering Thermodynamics, Thermal Power Engineering, IC Engine, Fluid Mechanics & Hydraulic Machinery, Operation Research & Production Planning etc & this subject's related lab, And I have been involved so many administrative works in Departmental, School and University level as well like, <ul style="list-style-type: none">➤ Departmental OBE Co-Ordinator➤ Time Table Co-Ordinator➤ 4th Year Project Co-Ordinator➤ AICTE, NACC accreditation Work.➤ I play the role of Faculty Volunteer in Adinova 2020.➤ I play the role of Convocation organizing committee for 3rd Annual Convocation.➤ Annual Sports, 2019- Committee member.➤ Agomoni-2019-Organizing Committee.➤ Single Point of Contact in University Planning & Monitoring Committee.

		<ul style="list-style-type: none"> ➤ Nodal Officer for supporting the University Admission Committee. ➤ Conducted 50% Experiment in each Lab in Virtual mode and Show case our Departmental virtual Lab indigital Media. ➤ As a member of Faculty Council New Syllabus Implemented in AY 2019, 2020 in our Departmental Level. ➤ Co-Ordinator of Departmental Branding Committee. ➤ Departmental IQAF-1 Coordinator <p>I have been involved so many Academic work in Departmental, School and University level as well like,</p> <ul style="list-style-type: none"> ➤ I am the mentor of Mechanical 2nd year students. I have been organized a meeting with my mentee once in a week and collected the issues form students' side and planned for resolving this issue. ➤ Techjagran-2019- Organizing Committee. I have worked in coordinating the events as per HOD's instructions and contributed external sponsorship of Rs. -5000/- in my personal contact. ➤ Organized "Innovative Technologies for Fluid Systems and Smart Materials & Manufacturing" one day seminar in association with IEL, Kolkata Chapter on May 2019. ➤ I have organized a guest lecture and inviting guestspeakers from NIT Durgapur. ➤ I have organized a online Webinar and inviting guestspeaker from L&T construction Manager. ➤ Conducted Flip Classroom Teaching. ➤ I have published 8 Blogs for 2020-21 admission perspective & 3 Blogs published in Times of India and Statesman in this lockdown period.
SWAMI VIVEKANANDA UNIVERSITY	UGC	<p>Now I am working at SWAMI VIVEKANANDA UNIVERSITY as an Asst. Professor. I teach the subject of Engineering Mechanics, Engineering Thermodynamics, Thermal Power Engineering, IC Engine, Fluid Mechanics & Hydraulic Machinery, Operation Research & Production Planning etc & this subject's related lab, And I have been involved so many administrative works in Departmental, School and University level as well like,</p> <ul style="list-style-type: none"> ➤ Departmental Program Co-Ordinator ➤ Time Table Co-Ordinator ➤ University UGC 2F coordinator ➤ Departmental Placement coordinator ➤ University IIC Vice- President ➤ Member of Admission Committee ➤ AISHE Documents preparation and its submission ➤ PARAKH (AICTE) implementation ➤ Mentor in the University Robotics club. ➤ As a SPOC of SIH, 2024 Organized the University Smart India Hackathon, from 2022 to 2024 (Tecnovation, 2024) and two team is selected for grand final in SIH, 2024. ➤ Departmental Two team is selected for final round of SERB-INAE Hackathon, 2022 under the guidance of me. ➤ NSS Program coordinator ➤ Departmental Event Coordinator

		➤ University UAMP Coordinator
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Place-Kolkata, West Bengal,

IndiaDate-26th April,2020