



Name : Mr. Amit Kumar Behera
Designation : Assistant professor
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Email Id : akbehera_chemical@gmail.com
Date of Joining : 27-05-2015

• **Qualification**

Ph.D. Continuing (VSSUT, Burla)
M.Tech.-Indian Institute of Technology, Guwahati
B.Tech.-NIT Warangal

• **Specialization**

Chemical Engineering

• **Experience**

09 years –Teaching (Assistant Professor in the department of Chemical Engineering, VSSUT Burla since 27 May 2015.

• **Subject Teaching**

Graduate Level : Fluid dynamics, Mechanical operations, Mineral Processing, Heat transfer, Thermodynamics, CRE

Post Graduate Level : NIL

• **Research Area**

Advanced Waste water treatment techniques, Advanced Oxidation Processes, Nanotechnology, Adsorption

• **Research Guidance**

Ph. D. Candidates : NIL

M. Tech. Candidates : NIL

• **Awards & Honours**

• **Members of Professional Bodies**

Indian Institute of Chemical Engineers

• **Sponsored Projects & Consultancy**

• **Publications**

International Publications-03

- AK Behera, KP Shadangi and PK Sarangi. Efficient removal of Rhodamine B dye using biochar as an adsorbent: Study the performance, kinetics, thermodynamics, adsorption isotherms and its reusability (2024).Chemosphere 354, 141702 (2024).
- AK Behera, KP Shadangi, PK Sarangi. Synthesis of dye-sensitized TiO₂/Ag doped nanocomposites using UV photoreduction process for phenol degradation: a comparative study (2022).Environmental Pollution 312, 120019.
- Amit Kumar Behera, Ch Venkatanarasimha Rao, Raj Kumar Das, Ardhendu Sekhar Giri & Animes Kumar Golder. Fabrication and characterization of Ag-doped titania: impact of dye-sensitization, phenol decomposition kinetics and biodegradability index, Desalination and water treatment (2015),1-10.

• **Books/ Chapter Published- 01**

- KP Shadangi, PK Sarangi, AK Behera. Characterization techniques of biomass: physico-chemical, elemental, and biological (2023). Bioenergy Engineering, 51-66

• **Seminar/ Symposia/ Short term Course organized**

TEQIP-III sponsored workshop on NTREES-2018 from 23rd-27th July 2018.

TEQIP-III sponsored FDP on RANCBE-2020 from 16th -20th Sep., 2020.

TEQIP-III sponsored project on "Degradation of industrial pollutants using AOP's" from 30.11.2019 to 21.01.2021

• **Extra Responsibility**

- 1) Faculty advisor for Training & Placement for dept. of Chemical Engg., VSSUT Burla.
- 2) Faculty advisor for Quiz club for session 2016-2017, VSSUT Burla.
- 3) Faculty advisor for Audio visual club for session 2017-2018, VSSUT Burla
- 4) Faculty advisor of yoga club, 2023-2024.
- 5) Faculty advisor of T & P, chemical Engineering department (2018-2023).
- 6) Faculty advisor of Chemical Engineering Society, chemical Engineering department (2020- 2023).

• **Conferences publications**

- AK Behera, A systematic Literature Review on development of Photocatalysts (2021).SPAST.
- AK Behera, K P Shadangi. Synthesis of dye sensitized mono-metallic TiO₂ and phenol degradation 9th IconSWM-CE2019, 27th -30th November 2019.

• **Address for Communication**

Permanent Address: Plot No-k4/LIG-1048, Kalinga Vihar,
PO-Patrapada, Bhubaneswar, District- Khordha, Odisha-751019.