CURRICULUM VITAE

Amit (Ph.D Student)

Indian Institute of Technology

Roorkee, Uttarakhand

India.

Personal Details:

Full Name: Amit	Sex: Male
Nationality: Indian	D.O.B: 05 June, 1988
Passport No: L 9889801	
Home Address: E-32, Jagat Puri Extn Shahdara, New Delhi, Pin code: 110093, India	
Mailing Address: Room No B-286, Malviya Bhawan, IIT Roorkee Saharanpur campus Saharanpur, Pin code - 247001, Uttar Pradesh, India	
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Education — Institute/University

PhD (2014- 2019)
Department of Polymer and Process Engineering
Research area (Wastewater Treatment and Biodiesel Production using Microalgae)

Indian Institute of Technology
Roorkee, India

M.Tech (2012-2014)
Specification: Chemical Plant Design
Department of Chemical Engineering

National Institute of Technology
Surathkal, Karnataka, India

B. Tech (2006-2010)
Specification: Biotechnology
Department of Biotechnology Engineering

IMS Engineering College
Ghaziabad Uttar Pradesh
India

Research Experience

2014-Present (Indian Institute of Technology Roorkee, India)
Cultivation of microalgae, wastewater treatment
and biodiesel production

2013-2014 (National Institute of Technology Karnataka)
Fabrication of swirling bubble column reactor
and study of mass transfer coefficients and their hydrodynamics

2009-2010 (IMS Engineering College Ghaziabad, India)
Screening of natural species for their antimicrobial activity

Workshop Attended

Participated in two days' workshop, TEQIP-II sponsored lecture series on *Advance in process control* at National Institute of Technology Karnataka India**.**

Participated in one day workshop on *Water Treatment Technologies for water challenged sites in India: Opportunities for Research Based Solutions* at department of chemical engineering, Indian Institute of Technology Roorkee, India.

Participated in one day workshop on *Molecular Simulation Techniques* at department of polymer and process engineering at Indian Institute of Technology Roorkee Saharanpur campus, Uttar Pradesh India.

Participated in one day workshop on *Nano drug delivery system* at Centre of excellence: Nano Technology, Indian Institute of Technology Roorkee, India**.**

Seminar/Presentations Delivered:

- Poster Presentation on "Utilization of kinnow peel for cultivation of marine microalgae *Tetraselmis indica* for biofuel production**"** at 3rd Green & Sustainable Chemistry Conference, intercontinental Hotel Berlin Germany**.**
- Poster Presentation on "Selection of *microalgae for nutrient removal and higher biomass production for biofuel feedstock***"** at NEERI Nagpur India.
- Seminar on *Phycoremediation of wastewater and biodiesel production using microalgae* at Indian Institute of Technology Roorkee, India.
- Presentation on "*Effect of liquid swirling on gas to liquid mass transfer in two phase swirling bubble column reactor***"** at Department of chemistry SRM university NCR campus, Modi Nagar, Ghaziabad, India**.**
- Seminar on *Effect of biofilm on cooling tower* in M.Tech 2nd semester, at NITK, India.
- Seminar on *A novel phosphonium-based deep eutectic catalyst for biodiesel production from industrial low grade crude palm oil in* M.Tech at NITK, India.
- Seminar on lab techniques in B.Tech final year at IMS Engineering college Ghaziabad, India**.**
- Seminar on *Alzheimer disease* in B.Tech final year at IMS Engineering College Ghaziabad, India**.**

Leadership Experience:

Indian Institute of Technology Roorkee
Teaching assistant:

- Prepare the course material including the laboratory experiments and practice problems
- Led weekly laboratory or tutorial classes for undergraduate's students

National Institute of Technology, Surathkal, Karnataka
Teaching Assistant (During M.Tech)

- Led the Laboratory for undergraduate students

Academic Publications (Till Now):

Amit., Chandra, R., Ghosh, U. K., & Nayak, J. K. (2017). "**Phycoremediation potential of marine microalga *Tetraselmis indica* on secondary treated domestic sewage for nutrient removal and biodiesel production"**. Environ. Sci. Pollut. Res. doi:10.1007/s11356-017-9734-6.

Amit., Ghosh, U. K., (2018). **"An approach for phycoremediation of different wastewaters and biodiesel production using microalgae"**. Environ. Sci. Pollut. Res., doi.org/10.1007/s11356-018-1967-5.

Nayak, J. K., **Amit**., Ghosh, U. K., (2018). "**An innovative mixotrophic approach of Distillery Spent Wash with Sewage Wastewater for Biodegradation and Bioelectricity Generation using Microbial fuel cell"**, Journal of Water Process Engineering, 306-313.

Chandra, R., **Amit** Ghosh, U. K.,(2018) "**Effects of various abiotic factors on biomass growth and lipid yield of Chlorella minutissima for sustainable biodiesel production**" in **Environmental Science and Pollution Research**, Environ. Sci. Pollut. Res. doi.org/10.1007/s11356-018-3696-1.

Amit., & Ghosh, U. K. (2019). **Utilization of kinnow peel extract with different wastewaters for cultivation of microalgae for potential biodiesel production in Journal of Environmental Chemical Engineering,** DOI: 10.1016/j.jece.2019.103135.

Amit., Ghosh, U. K., (2019) "**Remediation of dairy industry wastewater and higher Lipid Production for Biofuel Feedstock"** (*under review*) in **Energy Sources, Part A: Recovery, Utilization, and Environmental Effects.**

Amit., Ghosh, U. K., (2019). **"Efficient harvesting of marine microalgae *Tetraselmis indica* using waste lime sludge" (Under Review) in Journal of Environmental Chemical Engineering.**

Amit., Ghosh, U. K., (2018). **"Removal of pollution load from pharmaceutical wastewater using *Tetraselmis indica* marine microalgae" (communicated).**

Conferences

Amit., & Keyur Rawal. (2014). **Effect of liquid swirling on gas to liquid mass transfer in two phase swirling bubble column reactor**, published in National conference on new approach in chemical science and advancement in renewable energy 1-5, on 4-5 April 2014., presented at Department of chemistry SRM university NCR campus, Modi Nagar, Ghaziabad, India.

Amit., & Ghosh, U.K. (2017). **Selection of microalgae for nutrient removal and higher biomass production for biofuel feedstock**. Selected in A special issue of Bioresource Technology (BITE) and Indian Journal of Experimental Biology (IJEB) will be published based on papers presented in the BRSI Conference organized at CSIR-NEERI during Oct 8-10, 2017.

Amit., & Ghosh, U.K.(2017). **Utilization of Kinnow peel for cultivation of marine microalgae *Tetraselmis indica* for biofuel production**. Presented in 3rd Green & Sustainable Chemistry Conference during 13^{th}-16^{th} may 2018 in berlin germany.

Skills and Techniques

Computer proficiency in Microsoft office and Mendeley
Isolation of microalgae, bacteria and fungi.
Ion chromatography (IC)
Inductively coupled plasma optical emission spectrometry (ICP-OPES)
Fourier transforms infrared spectroscopy (FTIR)
Zeta potential
Statically analysis of data
TOC
Spectrophotometer
Language: English

Amit
Applicant's signature