ACADEMIC BIODATA

MANASWINEE PATNAIK

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Career Objective:
To build a long-term career in a professionally managed organization in the Civil engineering field and improve my Technical skills by constantly taking new challenges thereby contributing to the organizational growth.

Education:			
	Institution	**Year**	**Percentage**
M.Tech. (WATER RESOURCES ENGINEERING)	National Institute of Technology, Rourkela	2011-2013	9.79 (CGPA) (till 3rd Sem.)
B.Tech. (CIVIL ENGINEERING)	Indira Gandhi Institute of Technology, Sarang Biju Patnaik University of Technology.	2005-2009	7.79 (CGPA)
AISSCE (12th)	Kendriya Vidyalaya, Berhampur C.B.S.E	2004	73.2%
AISSE (10th)	Atomic Energy Central School, C.B.S.E	2002	75.4%

Key Skills:

Software Skills	AUTO-CAD, GOLDEN SURFER 10.0, ANSYS-FLUENT(13.0), ANSYS-CFX(13.0), XLSTAT, QGIS
Strengths	Organized, Enthusiastic, Team Building, Optimistic, Eagerness to explore and learn, Sincere, Self motivated.

Academic Project and Training:	
Training/Project Work	**Description**
Short Term Course on "PRINCIPLES AND APPLICATIONS OF GIS"	Participated in a short term course organized by Department of Civil Engineering, IIT (BHU) Varanasi during January 7-12, 2019
Workshop on "Climate Change" held at NIT, Rourkela	Participated in the workshop on Climate Change organized by Center for Environmental Studies (CES) (Forest and Environment Dept., Govt. of Odisha) held on 11th March 2012.
Short Term Course on "CEOP-AEGIS Stakeholders Panel Training Session Series" held at NIT, Rourkela	Successfully completed a training programme on CEOP-AEGIS conducted at NIT, Rourkela from April 16th – 20th , 2012.
Short Term Course on "ADVANCES IN WATER RESOURCES ENGINEERING" held at NIT, Rourkela	Participated in a short term course organized by Department of Civil Engineering, NIT Rourkela during 7th May – 12th May, 2012
Workshop in "HYDROLOGICAL INFORMATION SYSTEM (HIS)" held at NIT, Rourkela	Attended an Awareness workshop in Hydrological Information System organized jointly by Water Resources Department (Govt. of Odisha) and NIT Rourkela on 19th October, 2011.
M.Tech Project work on "Boundary Shear Stress Distribution in Meandering Channels"	The objective of the present project is to determine boundary shear distribution along the wetted perimeter in a highly sinuous (90^{o} bend) wide meandering open channel.
B. Tech Project work on "Settling Characteristics of Fly ash."	The objective is to study the settling characteristics of fly ash-water slurry using a polymer solution to improve the settling rate of the fly ash and to calculate the rate of settling of fly ash by gravitational settling method.

Teaching Areas
Fluid Mechanics and Hydraulic Machines, Fluid Mechanics Laboratory, Irrigation Engineering, Design of hydraulic structures, Water Resources Engineering, Environmental Engineering, Construction equipment planning and management, Engineering Drawing

Research Areas
Open channel hydraulics, Boundary shear and turbulence studies of meandering compound channels, Probability and Statistics, Water quality index, Geospatial studies

Conferences	1. Presented a paper "Boundary Shear Distribution in Highly Sinuous Meandering Channels" in HYDRO-2012, organized by IIT Bombay in association with Indian Society for Hydraulics (ISH), Pune, during December 7 and 8, 2012. 2. Paper "Depth-Averaged Velocity Distribution in Trapezoidal Meandering Channels" in HYDRO-2012, organized by IIT Bombay in association with Indian Society for Hydraulics (ISH), Pune, during December 7 and 8, 2012. 3. Patnaik M., Mohanty, L. and Patra K.C. (2013). Wall and Bed Shear Distribution in Meandering Channels. *Proceedings of Symposium on Sustainable Infrastructure Development (SID) SID 8th-9th February 2013, IIT Bhubaneswar, Bhubaneswar, India.* pp 374-382. 4. Mohanty, L., Patnaik M. and Patra K.C. (2013). Lateral Distribution of Depth-Averaged Velocity in Trapezoidal Meandering Channels. *Proceedings of Symposium on Sustainable Infrastructure Development (SID) SID 8th-9th February 2013, IIT Bhubaneswar, Bhubaneswar, India.* pp. 383-389. 5. Patra K. C., Padhi E., Mohanty L., and Patnaik M. (2014). Analysis of depth averaged velocity in meandering compound channels, *7th International Conference on Fluvial Hydraulics in Lausanne, pp.631-640, Lausanne, Switzerland*, September 2014.
Journals	1. Priyadarshini M., Giri J.P. and Patnaik M. (2021). Variability in the compressive strength of non-conventional bricks containing agro and industrial waste, *Case Studies in Construction Materials*, Elsevier, Vol.14, e00506. https://doi.org/10.1016/j.cscm.2021.e00506 2. Patnaik M. and Priyadarshini M. (2020). Statistical and Time series Analysis of Ground Water Parameters of Kalahandi District, Odisha, India. *IOP Conference Series: Materials Science and Engineering* 970 012034. doi:10.1088/1757-899X/970/1/012034 3. Priyadarshini M., Patnaik M. and Giri J.P. (2018). A probabilistic approach for identification of compressive strength of fly ash bricks, *Innovative Infrastructure Solutions*, Springer, 56. https://doi.org/10.1007/s41062-018-0162-3 4. Patnaik M., Patra K.C., Khatua K. and Mohanty L. (2014).

	Modelling boundary shear stress in highly sinuous meandering channels. *ISH Journal of Hydraulic Engineering*, Taylor & Francis publication, Volume 20, Issue 2, pp 161-168. https://doi.org/10.1080/09715010.2013.860733 5. Mohanty L., Patra K.C., Khatua K. and Patnaik M. (2014). Modelling the depth-averaged velocity in trapezoidal meandering channels. *ISH Journal of Hydraulic Engineering*, Taylor & Francis publication, Volume 20, Issue 1, pp 111-118. https://doi.org/10.1080/09715010.2013.857472

Awards
Institute silver medal securing first position in Water Resources Engineering at NIT Rourkela

Profile Details:	
Father's Name	Rajeeb Patnaik
Date of Birth	22nd September 1987
Nationality	Indian
Marital Status	Married
Address for Correspondence	C/O – Mrs. Pravati Pattnaik At- Dewansahebpada, Bhawanipatna, Dist.- Kalahandi, Odisha 766001
Permanent Address	C/O – Mrs. Pravati Pattnaik At- Dewansahebpada, Bhawanipatna, Dist.- Kalahandi, Odisha 766001
Contact Number	+91- 9439817215
Language Known	English, Hindi and Odia

DECLARATION

I do hereby declare that all the statements given herein are true to the best of my knowledge and belief.

Date:

Place:

(Signature of the Candidate)