

CURRICULUM VITAE

Name: Dr. TANUMOY GHOSH

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Educational Qualifications:

EXAMINATION	YEAR OF PASSING	EXAMINING AUTHORITY	INSTITUTION	MARKS %/DGPA
Secondary Examination	2003	W.B.B.S.E	Sri Aurobindo Vidyamandir	81
Higher Secondary Examination	2005	W.B.C.H.S.E	Sri Aurobindo Vidyamandir	70
B.TECH	2010	W.B.U.T	Meghnad Saha Institute of Technology	8.17
M.E	2012	B.E.S.U.S	B.E.S.U	81
PhD	2021	IESTS	IEST	-

Details of Educational Qualification:

B.TECH(year 2006 to 2010) from Meghnad Saha Institute of Technology
(West Bengal University of Technology)

Discipline: Civil Engineering

M.E: Transportation Engineering (Civil Engineering)

(GATE RANK: 437 with 97.7 percentile)

from Bengal Engineering and Science University, Shibpur, Howrah.

Completion of ME: June, 2012.

Topic of PhD Thesis: Study on Effect of Drivers' Behaviour on Capacity and Level of Service of Multilane Indian Highways.

Completion of PhD: 23rd September, 2021 (Indian Institute of Engineering Science and Technology, Shibpur, W.B.)

Present status :

- Assistant Professor in Hooghly Engineering & Technology College
(Teaching experience of 9 years and 9 months till date)

SKILLS:

1. Subjects Preferred for teaching:

- a) Transportation Engineering
- b) Concrete Technology
- c) Soil Mechanics & Foundation Engineering
- d) Water Resource Engineering
- e) R. C. C. Design
- f) Surveying & Geomatics
- g) Water Supply & Sewage Disposal

2. Vocational Training

Industrial training at Nilerchak Bridge in Burdwan district under "Mackintosh Burn Limited".

3. Projects:

(a) Design of Industrial Roof Truss: Objective - Considering different types of loads acting on a Roof Truss from different directions and deflection made by those. Design of each joint and selection of suitable section in order to overcome the deflection.

(b) Design of a Four-Storied R.C Framed Office Building Objective -This includes design of Slabs (Floor Slabs, Roof Slabs), design of Staircase, Effect of Dead Load, Live Load, Wind Load on the structure, deflection, etc.

4. Software known: VISSIM, MATLAB, PYTHON, SPSS, AMOS.

5. Publications:

1. P. G. Bhattacharya, **T. Ghosh**, R. Paul, “Assessment of Suitability of Lime-Laterite Soils in the Construction of Road Base”, *Indian Roads Congress (IRC)*, Vol. 42, Issue: 11, November 2014, ISSN 0376-7256, pp 21-25.
2. S. Choudhury, **T. Ghosh**, R. Paul, B. Tudu, I. Mukherjee, “Transition from Fossil Fuel to Non-Conventional Sources-A solution for the Future in India”, Abstract published in the proceeding of International Seminar on “Society, Politics and climate Change” organized by Khandwala College, IIFM, USIEF held at Nagindas Khandwala College, Malad(west) Mumbai on 3rd -4th Dec, 2012.
3. P. G. Bhattacharya, **T. Ghosh**, R. Paul, A. Das, “A Comparative Study of Flexural Fatigue Responses of Lime-Laterite and Lime-Fibre-Laterite Soil Mixtures At Different Densities”, *Jordan Journal of Civil Engineering (JJCE)*, Vol.10, No. 4, pp. 489-500, October 2016, ISSN 1993-0461, ISSN 2225-157X.
4. **T. Ghosh**, S. K. Roy, S. Gangopadhyay “Multilane Highway Capacity Estimation by Micro-Simulation Technique Using Calibrated Vehicle Following Model” presented in 18th World Road Meeting (WRM), New Delhi, 14-17 November, 2017.
5. **T. Ghosh**, S. K. Roy, S. Gangopadhyay " Capacity Estimation of Indian Multilane Highway by Calibrating Driver's Behavior Parameters " Third National Conference on Recent Advances in Traffic Engineering, SVNIT, Surat, 11-12 August, 2018.
6. **T. Ghosh**, S. K. Roy, S. Gangopadhyay “ Capacity Estimation of Multilane Highways under Heterogeneous Traffic Conditions using Micro-Simulation Technique” SAMRIDDHI: A Journal of Physical Sciences, Engineering and Technology, Vol.12, Issue 1, pp. 20-25, Print ISSN 2229-7111, Online ISSN 2454-5767, <https://doi.org/10.18090/samriddhi.v12i01.4>, June, 2020.
7. **T. Ghosh**, S. K. Roy, S. Gangopadhyay " Capacity Estimation of Indian Multilane Highway by Calibrating Driver's Behavior Parameters " Recent Advances in Traffic Engineering, Lecture Notes in Civil Engineering,

Vol.69, pp. 55-68, ISSN 2366-2557, https://doi.org/10.1007/978-981-15-3742-4_4, September, 2020.

8. **T. Ghosh**, S. K. Roy, S. Gangopadhyay “Assessment of Multilane Highway Capacity Through Simulation Process by Considering the Effect of Behavior of Driver of a Vehicle” Journal of The Institution of Engineers (India): Series A, Vol.101, Issue 4, pp. 589-596, ISSN 2250-2149, <https://doi.org/10.1007/s40030-020-00475-z>, October, 2020.

6. Programming Language known:

- a) C
- b) Fortran

7. Project work Supervised (UG Level):

- i) Project on Design of four lane highway and rotary intersection.
- ii) Comparative study on capacity analysis between hilly and inter-urban roads
- iii) Comparative study of the Strength of different Bituminous mixes
- iv) Comparative study of strength of selected brands of cement
- v) Project on investigation of soil properties collected from H.E.T.C campus
- vi) Project on traffic flow and capacity analysis of some selected multilane highways in India
- vii) An investigation on the effects of varying quality of mixing water on the strength of plain cement concrete
- viii) Capacity analysis of multilane highways in India by traditional method as well as python programming language.
- ix) Waste plastics as binding material for construction of pavement
- x) Project on level of service of Indian roads on the basis of user perception.
- xi) Determination of Capacity & LOS of a four lane highway.

8. Administrative work involvement:

- i) Active participation as a committee member in NBA and NAAC related works of Hooghly Engineering & Technology College.
- ii) Committee member of Academic Committee, Library Committee, Magazine committee, Sports committee, Cultural committee, Training & Placement committee and Anti-Ragging committee of the College.

9. Training Programme Participation:

- i) Training Programme on 'Analysis & Design of Flexible Pavements' organized by NITTTR, Kolkata.
- ii) Training Programme on 'Laboratory & Field tests on Soil' organized by NITTTR, Kolkata.
- iii) Training Programme on 'Laboratory tests on Concrete Materials and Introduction to Non-Destructive Testing' organized by NITTTR, Kolkata.
- iv) Training Programme on 'Total Station Survey & Introduction to GPS' organized by NITTTR, Kolkata.
- v) Faculty Development Programme on 'Advanced Technologies in Transportation Engineering and Town Planning' organized by Coimbatore Institute of Technology, Coimbatore.
- vi) Faculty Development Programme on 'Contemporary Technologies for Sustainable Road Construction' organized by Siksha 'O' Anusandhan, Odhisa, under ATAL Academy.
- vii) Faculty Development Programme on 'Green Technology and Sustainability Engineering' organized by Kolhapur Institute of Technology's College of Engineering, Maharashtra, under ATAL Academy.

10. Important Seminar/Symposium/Workshop/Webinar

- i) International Symposium on 'Engineering under Uncertainty: Safety Assessment and Management, ISEUSAM' organized by Civil Engineering department, BESU, Shibpur, Howrah, W.B.
- ii) Workshop on 'Advances in the Design and Construction of Bituminous Pavements' organized by IEST, Shibpur, Howrah, W.B.
- iii) Workshop on 'Research and Innovations in Traffic Safety Engineering' by IEST, Shibpur, Howrah, W.B.
- iv) National seminar on 'Effect of Present Day Construction Industry on Environment' by Indian Building Congress, W.B.
- v) Webinar on 'Planning & Design of Sustainable Transportation Infrastructures' by IEST, Shibpur, Howrah, W.B.
- vi) Webinar on 'Construction and maintenance of sustainable rural roads' by NITTTR, Kolkata, W.B.
- vii) Webinar on 'Online faculty knowledge sharing programme' by ICFAI Business School, Kolkata, W.B.
- viii) Webinar on 'Nation building with ethical & sustainable Construction' by Doctor Sand Ltd in association with Indian Concrete Institute.
- ix) Webinar on 'Fundamentals on Highway Design' by Jaypee University of Information Technology, Wagnaghat, Solan, Himachal Pradesh.

- x) Webinar on ‘Glacial Lake Outburst Floods (GLOF): An Insight’ by Jaypee University of Information Technology, Waknaghat, Solan, Himachal Pradesh.
- xi) Online Workshop on ‘Wrong Side of the Road - Road Safety Online Workshop’ in association with Gujarat Power Engineering and Research Institute, Mehsana, Gujarat.

11. Research Experience: 6 years

12. Journal Paper Review Work & Interviewer

- (i) Reviewer of Transportation Research Record/ Transportation Research Board.
- (ii) Reviewer of Transportation Research Interdisciplinary Perspectives.
- (iii) Reviewer of International Journal of Innovative Science Engineering and Technology.
- (iv) Act as an interviewer for lecturer recruitment in Civil Engineering department of Technique Polytechnic Institute, Hooghly, W.B.

13. Consultancy Work & Seminar Organized

Related with Consultancy work of Hooghly Engineering and Technology College on Soil Mechanics and Concrete Technology. Organized a seminar on “Highway Construction Material” on 17th November, 2016, where lecture was delivered by Dr. Tapas Kumar Roy, Associate Professor in Civil Engineering department of IEST, Shibpur, W.B.

OTHER DETAILS:

1. Professional References

- (i) Dr. Sudip Kumar Roy (Dean Academic, IEST, Shibpur, Howrah, W.B., E mail: roysudip@gmail.com)
- (ii) Dr. Subhamay Gangopadhyay (Former Director CSIR-CRRI, New Delhi, E mail: subhamay16@gmail.com)

2. Personal Details:

(i) Date Of Birth: 17th June, 1986. **(ii) Parents:** Mr. Tapan Kumar Ghosh and Mrs. Sikta Ghosh. **(iii) Wife:** Mrs. Poulami Ghosh Goswami

(iv) Extra Curricular Activities:

(a) Playing Football **(b)** Playing Cricket **(c)** Playing Guitar


(v) Strength: Sincere, Honest and Hard-working.

(vi) Language Proficiency: English, Hindi and Bengali

I do hereby declare that the statements made here are true and correct to the best of my belief and knowledge.

Place: Chinsurah, Hooghly, W.B.

Date: 30.04.2022

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(Tanumoy Ghosh)