



DOCTORAL PROGRAM **COMPUTATIONAL SCIENCE**



GENERAL INFORMATION

Program code: 9460107
Tuition: 1.595 USD/ year
Admissions: June and December
Course duration: 3-4 years
Form of training: Full-time
Language of instruction: English



INTRODUCTION

The doctoral program in computational science is designed to ensure the modernity and integration with development trend of the world. The Ph.D candidates will be guided and work with leading experts and professors who have many ISI international publications, and participate in ongoing research projects. In particular, the Ph.D candidates will have the opportunity to receive a scholarship from Ton Duc Thang University. Research areas include: High-performance computing, artificial intelligence, computational mechanics, computation in construction, computational mechatronics, computational physics, computational statistics, etc.



ADMISSION CANDIDATES

Group 1	Group 2	Group 3
Candidates with a Master's degree in a relevant field of the registered specialization.	Candidates with a Master's degree in a field closely related to the registered specialization (must take up complementary courses).	Candidates with a distinction or high distinction undergraduate degrees in a relevant field of the registered specialization (must take up complementary courses).
	Complementary courses: 15 credits	Complementary courses: 32 credits

(* Please refer to the relevant/ closely relevant majors and complementary courses list at admissions link



CURRICULUM

Course code	Course title	Total credits
Compulsory courses		09
IN801100	Mathematical modeling in mechanics and physics	3
IN801110	Computational artificial intelligence	3
IN801120	High performance computing	3
Optional specialized courses (choose 01 course)		03
IN801130	Mechanicals behavior of materials	3
IN801140	Computational fracture mechanics + Identifying and Predicting damage of mechanical systems	3
IN801150	Dynamics of structures + Vibration control	3
IN801160	Computational fluid dynamics	3
IN801170	Computational mechanics in multiphysics environments	3
IN801180	Reliability analysis of structures and Reliability-based structural optimization	3
IN801190	Fundamentals of computational science - 7	3
IN801200	Computational methods for theoretical physics	3
IN801210	Simulation softwares and condensed matter physics	3
IN801220	Computational chemical and biophysics	3
IN801230	Computational material science and nano science	3
IN801240	Fundamentals of computational science 12	3
IN801250	Fundamentals of computational science - 13 (Foundation of computational mechanics)	3
Literature review		04
IN801900	Research proposal	4
Doctoral research topics		06
IN801910	Research topic 1	3
IN801920	Research topic 2	3
Doctoral dissertation		70
IN801000	Doctoral dissertation	70



SCHOLARSHIP

TDTU offers scholarships (100%, 50% and 25%) based on GPA of international students and the scholarship will be reviewed every year.

For more information please visit: <https://grad.tdtu.edu.vn/en/academic/scholarship>



CONTACT INFORMATION

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Online submission:

<http://gradadmissions.tdtu.edu.vn/>

Admissions:

<https://admission.tdtu.edu.vn/en/graduate/information/doctoral-program>