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| **ANNUAL REPORT – 1st year of education (2023/2024)**  Start of education**: *October 18th, 2023***  **Doctoral School of Exact and Natural Sciences**, NCU in Toruń  *“Academia Scientiarum Thoruniensis”* | | | | | | |
| **1. Student information** | | | | | | |
| First and last name | | Biswarup Biswas | | | | |
| Scientific field | | New Computational methods for the Quantum Chemistry relam | | | | |
| Transcript number | | 503541 | | | | |
| Date of acceptance to doctoral school | | 18th October 2023 | | | | |
| **2. Supervisor 1 information** | | | | | | |
| First and last name | | Ireneusz Grabowski | | | | |
| Title/degree | | Prof. dr hab. | | | | |
| Department | | Institute of Physics, Faculty of Physics, Astronomy and Informatics | | | | |
| **3. Supervisor 2 information** | | | | | | |
| First and last name | | Szymon Śmiga | | | | |
| Title/degree | | dr | | | | |
| Faculty/department | | Institute of Physics, Faculty of Physics, Astronomy and Informatics | | | | |
| **4. Co-supervisor information** | | | | | | |
| First and last name | | NA | | | | |
| Title/degree | | NA | | | | |
| Faculty/department | | NA | | | | |
| **5. Information about implementation of teaching program** | | | | | | |
|  | **course name** | | | **no. hours** | **ECTS** | **pass/grade** |
| Module I – basic courses | 1. Supervisory mentoring[7404-MP-FIZ]   Prof. dr hab. Ireneusz Grabowski | | | 20 | 2 | In Progress |
| 1. Elements of Quantum Mechanics [7404-FIZ-WK-EMK]   Prof. Dr hab Roman Ciurylo | | | 30 | 3 | Passed  5 |
| 1. Modern Experimental Techniques [7404-WF-NOTEKS]   dr hab. Łukasz Kłosowski  prof. dr hab. Winicjusz Drozdowski  dr hab. Piotr Kolenderski  prof. dr hab. Daniel Lisak  dr hab. Kamil Fedus  dr hab. Iwona Gorczynska | | | 30 | 3 | Passed  4 |
| Module I – lecture in additional discipline (other than doctorate) | Fundamentals of climate and climate change[7404-SD-NoZiS-FCLIM] dr Aleksandra Pospieszyńska  dr hab. Andrzej Araźny | | | 30 | 3 | Passed  5 |
| Moduł II – courses improving professional skills | 1. Scientific information: tools for searching and managing scientific and teaching resources [7404-FIZ-IN]   Prof. dr hab. Wieslaw Nowak | | | 10 | 1 | ZAL  (Passed) |
| 1. Organization and financing of research[7404-OFB]   prof. dr hab. Sebastian Maćkowski | | | 15 | 2 | In Progress |
| 1. Scientific writing and publishing[7404-FIZ-PPTN]   Prof. dr hab Wieslaw Nowak | | | 15 | 2 | ZAL  (Passed) |
| 1. Creative thinking[7404-CT]   dr hab. Rafał Moczkodan | | | 10 | 1 | ZAL  (Passed) |
| 1. Techniques of presenting results and popularization of scientific knowledge[7404-FIZ-TPW]   prof. dr hab. Sebastian Maćkowski | | | 10 | 1 | Passed  3.5 |
| 1. Elements of copyright and patent law[[7404-EPAP]   dr Katarzyna Krupa-Lipińska | | | 10 | 1 | ZAL  (Passed) |
|  | Interdisciplinary seminar [7404-KIN] Prof. dr hab Wieslaw Nowak | | | 30 | 3 | In Progress |
|  | Occupational Safety Health and Ergonomics | | | 5 | NA | ZAL  (Passed) |
|  | Problems of ethics, open science and open innovation | | | 5 | 1 | Passed  3 |
| Module III – specialistic courses | 1. Introduction to density functional theory[0800-INDEFUT]   dr Szymon Smiga | | | 30 | 3 | Passed  5 |
|  | 1. Introduction to Python for Doctoral Students[7404-ITP] | | | 30 | 3 | Passed  4.5 |
| **6. Information about internships (co-conducting classes)** | | | | | | |
| course: insert name | | | number of hours: | | | |
| **7. Information about internships (conducting classes)** | | | | | | |
| course: insert name | | | number of hours: | | | |
| **8. Publication of a scientific article in a scientific journal, monograph or chapter in monograph/review** | | | | | | |
|  | | | | | | |
| **9. Active participation (oral presentation or poster) in an international conference, documented in conference materials** | | | | | | |
| 20th International Conference on Density Functional Theory and its Applications(2024) poster Presentation entitled “Study of Orientational Relaxation of Glass Forming Liquids” in Paris, France from 25th-30th August 2024 | | | | | | |
| **10. Participation in workshops or summer schools** | | | | | | |
| European Summer School in Quantum Chemistry from 8th - 21st September 2024 in Sicily, Italy | | | | | | |
| **11. Co-organization of workshops and scientific conferences** | | | | | | |
| N/A | | | | | | |
| **12. Documented participation of doctoral student in internships or courses that improve qualifications** | | | | | | |
|  | | | | | | |
| **13. Financing scientific research of doctoral student from own grants or grants obtained by supervisor/other sources** | | | | | | |
| Conferences and Summer School have been paid by the grants from Dr. Szymon Smiga | | | | | | |
| **14. List of applications sumbitted by doctoral student in university or external contests for funding of trips abroad and/or scientific research** | | | | | | |
| N/A | | | | | | |
| **15. Internships of doctoral student in other scientific centers (including foreign ones, if justified by discipline of student)** | | | | | | |
| N/A | | | | | | |
| **16. Scientific achievements of doctoral student (scientific articles, monographs), which were created in international cooperation** | | | | | | |
| N/A | | | | | | |
| **17. Publishing scientific articles in magazines from first quartile (Q1) or most prestigious publications (for 200 points)** | | | | | | |
| N/A | | | | | | |
| **18. Joint co-supervision of doctoral thesis together with foreign partners** | | | | | | |
| N/A | | | | | | |
| **19. Other activities of doctoral student (e.g. disseminating activities, passive participation in conferences, etc.)** | | | | | | |
| Co-Supervisor in TSSP ExSi 2024 projects-Quasi 2D and 2D chemistry at Institute of Physics, Nicolaus Copernicus University in Torun, Poland | | | | | | |
| **20. Student’s comments on the course of last year of education** | | | | | | |
| The fundamental courses(obligatory) in AST are well align to my scientific field of research a lot in terms of attending these courses and lectures. | | | | | | |
| **21. Approval of the report by supervisor/supervisors**  ***(filled out by supervisor/supervisors)*** | | | | | | |
| I approve the report of the student.  .…………………………………..…….……….………  **signature of supervisor/supervisors** | | | | | | |
| **22. Recommendations and comments by School Director**  ***(filled out by School Director)*** | | | | | | |
| .…………………………………….……….………  **signature of School Director** | | | | | | |

*developed by: Renata Drozdowska*