

## Ph.D Booklet

PhD candidate: Pallavi Jha  
Host Institution: IFW  
Starting date at the Chair: 27.04.2023

Supervisor: Prof. Dr. G. Cuniberti  
Co-Supervisor: Dr. Mariana Sanchez

### Ph.D. procedure at the Chair of Materials Science and Nanotechnology

During the Ph.D. studies at the Chair of Materials Science and Nanotechnology, the student shall be supported and guided by the **Thesis Advisory Committee (TAC)**. The purpose of the Thesis Advisory Committee is to improve the quality of research and to advise the Ph.D. student throughout her/his scientific career. All interactions between the TAC and the Ph.D. student are strictly confidential. The TAC schedule is binding for you at the Chair of Materials Science and Nanotechnology. TAC consists of the Supervisor, co-Supervisor and further member(s)

### Scheduling and documentation of TAC meetings

- Please arrange the appointment for each meeting in advance with the office of Prof. Cuniberti
- The student has to bring the TAC report booklet to the occurring TAC meeting.
- Your pptx for the oral scientific presentation (15min) should be submitted to the TAC members for review 3-4 working days before the meeting.
- During each TAC meeting the committee documents decisions and issues in the TAC report booklet. Later, a copy of the TAC report has to be submitted to the office of Prof. Cuniberti.

### Ph.D. Schedule

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1st month at the Chair       | <p><b>Application for acceptance as Ph.D. student</b> at the Faculty of Mechanical Science and Engineering (via Promovendus), read the Ph.D. regulations (Promotionsordnung) carefully!</p> <p><b>Kick-off Meeting:</b> Presentation of the PhD project (15min) Discuss the Ph.D. task, scope, impact, feasibility and associated risk of the project, TAC members should be nominated, the Supervision agreement and the confirmation of academic supervision should be signed</p> |
| 6 months at the Chair        | <p><b>1st TAC Meeting:</b> presentation and follow-up on the progress of the project (15min) Discussion of the research results obtained so far</p>                                                                                                                                                                                                                                                                                                                                 |
| 1,5 years at the Chair       | <p><b>2nd TAC Meeting:</b> formal oral scientific presentation about your research results over the past year (15min) discussion of the progress/results and the structure of the Ph.D. thesis Decision Rigorosum (anticipated or together with the defence</p>                                                                                                                                                                                                                     |
| Last year before submission  | <p><b>Replaced Rigorosum</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 2,5 years at the Chair       | <p><b>3rd TAC Meeting:</b> oral scientific presentation about your research results over the past year (15min) discussion of the progress/results, definition of necessary research steps for completion of Ph.D. 10 Statements discussion Decision about the Ph.D. committee and the reviewers</p>                                                                                                                                                                                 |
| 2 months before submission   | <p><b>Status talk:</b> formal oral scientific presentation in front of Prof. Cuniberti and the Chair (30min talk + discussion) within the nano.seminar last approval to submit the Thesis</p>                                                                                                                                                                                                                                                                                       |
| ca 4 months after submission | <p><b>Application for the opening of the Ph.D. procedure</b> (via Promovendus)</p> <p><b>Defense of your Thesis &amp; (Rigorosum)</b></p>                                                                                                                                                                                                                                                                                                                                           |

## TAC Kick off meeting

1st month at the Chair | Presentation of the PhD project (15min) | Discuss the Ph.D. task, scope, impact, feasibility and associated risk of the project and set up the Ph.D. task definition | TAC members should be nominated | Supervision agreement & confirmation of academic supervision should be signed.

Date: 27.05.23

### Your Thesis Advisory Committee (TAC):

Ph.D. thesis supervisor

Prof. G. Cuniberti

Day-to-Day supervisor:

Dr. Mariana Sanchez

Further (extern) Member(s):

/

### Ph.D. Topic / Working title:

### Research objective | Ph.D. task definition:

### Estimated Ph.D. schedule:

1st TAC (6 months at the Chair):

03/2024

2nd TAC (1,5 years at the Chair):

11/2024

3rd TAC (2,5 years at the Chair):

11/2025

Status Talk (2 months before submission):

01/2026

Submission of the Thesis:

02/2026

Filled and signed the supervision agreement (GA Template)



Filled and signed the confirmation of academic supervision



Checked in at the Chair



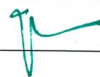
Are there other open organizational issues? Do you face any practical problems (housing, mobility, food, working environment)?

Signature Ph.D. candidate:

Signature Ph.D. thesis supervisor/Doktorvater:

Signature Day-to-Day supervisor.

Signature further member:



After signature, please hand in this report to the office of Prof. Cuniberti

Presentation slides sent to [office.nano@tu-dresden.de](mailto:office.nano@tu-dresden.de) and [gianaurelio.cuniberti@tu-dresden.de](mailto:gianaurelio.cuniberti@tu-dresden.de) ? Yes ☐

No ☐

# 1<sup>st</sup> Thesis Advisory Committee Meeting

6 months at the Chair | Presentation and follow-up on the progress of the project (15 min) | Discussion of the research results obtained so far

Date: 05.03.2024

## 1. Based on the candidate's presentation please evaluate the following areas:

### Student's presentation:

15 min on time? Yes ☒ No ☒ *No!*  
Slides clear? Yes ☒ No ☐  
Presentation clear? Yes ☒ No ☐

Comments:

### Ph.D. project - Research and Progress

e. g. frequency and quality of interaction, relevance of the problem, experimental approach; results and accomplishments from the previous year; new scientific discoveries; goals for the next year/meeting; knowledge of the literature; oral presentation

Highlights

Improvements

*make more samples*

### Working Style

e. g. to work in a systematic and structured way; to be able to set priorities; to develop and apply creative and innovative solutions; to communicate openly, actively and clearly

Highlights

Improvements

### Scientific Visibility and Qualifications

e. g. publications; conferences; internal nanoSeminar during the semester break

Highlights

Improvements

## 2. Recommendations for the PhD candidate

### 3. Open organizational issues

Accepted as a PHD candidate?

Yes ☒

No ☐

If no, what has to be done?

#### Examination for students without Engineering degree

Every student without an Engineering degree needs to absolve two additional courses within the Faculty of Mechanical Science and Engineering to proof the engineering knowledge (see Promotionsordnung §9, between 10 and 20 credit points in total).

Additional course I:

Additional course II:

Prepar AGOR.1

Neuerbautechnik  
Material

Other issues / Problems?

Signature Ph.D. candidate:

Signature Ph.D. thesis supervisor/Doktorvater:

Signature Day-to-Day supervisor.

Signature further member:

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After signature, please hand in this report to the office of Prof. Cuniberti

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No ☐

## 2<sup>nd</sup> Thesis Advisory Committee Meeting

1,5 years at the Chair | oral scientific presentation about your research results over the past year (15min) | Discussion of the progress/results and the structure of the Ph.D. thesis | Decision Rigorosum

Date:

### 1. Based on the candidate's presentation please evaluate the following areas:

#### Student's presentation:

|                     |                           |                          |           |
|---------------------|---------------------------|--------------------------|-----------|
| 15 min on time?     | Yes <input type="radio"/> | No <input type="radio"/> | Comments: |
| Slides clear?       | Yes <input type="radio"/> | No <input type="radio"/> |           |
| Presentation clear? | Yes <input type="radio"/> | No <input type="radio"/> |           |

#### Ph.D Project - Research and Progress

e. g. frequency and quality of interaction, relevance of the problem, experimental approach; results and accomplishments from the previous year; new scientific discoveries; goals for the next year/meeting; knowledge of the literature; oral presentation

Highlights

Improvements

#### Working Style

e. g. to work in a systematic and structured way; to be able to set priorities; to develop and apply creative and innovative solutions; to communicate openly, actively and clearly

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Highlights

Improvements

### 2. Recommendations for the PhD candidate

### 3. Open organizational issues

#### Rigorousum / replaced Rigorousum

The Rigorousum is an oral examination of knowledge in the specialist field upon which the dissertation is based (primary subject) and in a related field (secondary subject) (§ 13 Doctorate Regulations). The Rigorousum will take place at the day of your defense or as anticipated Rigorousum (vorgezogenes Rigorousum, but please keep in mind, that examinations taken more than one year before the opening of the Ph.D. procedure can't be considered.)

Rigorousum together with defense ☐

anticipated Rigorousum ☐

Nanostructured Materials is mandatory as the primary subject at our chair and you have to choose the secondary subject for the Rigorousum. For all rules concerning the Rigorousum examination, please study the doctoral regulations (§ 13 and §14)!

After your decision, you need the formal confirmation of the Ph.D. committee of the Faculty of Mechanical Science and Engineering. You apply for this via Promovendus.

**Major course:** Nanostructured Materials, Prof. Cuniberti      oral ☐      written ☐

**Minor course:** 40      oral ☐      written ☐

#### Other issues / Problems?

Signature Ph.D. candidate: \_\_\_\_\_

Signature Ph.D. thesis supervisor/Doktorvater: \_\_\_\_\_

Signature Day-to-Day supervisor. \_\_\_\_\_

Signature further member: \_\_\_\_\_

**After signature, please hand in this report to the office of Prof. Cuniberti**

Presentation slides sent per to [office.nano@tu-dresden.de](mailto:office.nano@tu-dresden.de) and [gianaurelio.cuniberti@tu-dresden.de](mailto:gianaurelio.cuniberti@tu-dresden.de)? Yes ☐

No ☐

### 3<sup>rd</sup> Thesis Advisory Committee Meeting

2,5 years at the Chair | oral scientific presentation about your research results over the past year  
(15min) | discussion of the progress/results, definition of necessary research steps for completion of Ph.D. | 10  
Statements discussion | decision about the Ph.D. committee and the reviewers)

Date:

#### 1. Based on the candidate's presentation please evaluate the following areas:

##### Student's presentation:

15 min on time? Yes ☐ No ☐  
Slides clear? Yes ☐ No ☐  
Presentation clear? Yes ☐ No ☐

Comments:

##### Ph.D Project - Research and Progress

e. g. frequency and quality of interaction, relevance of the problem, experimental approach; results and accomplishments from the previous year; new scientific discoveries; goals for the next year/meeting; knowledge of the literature; oral presentation

Highlights

Improvements

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Highlights

Improvements

##### Scientific Visibility and Qualifications

e. g. publications; conferences; internal nanoSeminar during the semester break

Highlights

Improvements

#### 2. Recommendations for the PhD candidate

### 3. Other issues / Problems / What happens after the defense?

### 4. Definition of necessary steps for completion of Ph.D. thesis

- Date of the "Statusvortrag" (45min, supervisor must be present)  
only valid for students enrolled with the new Promotionsordnung 03/2018
- Thesis approved for final submission: Yes ☐ No (What have to be done) ☐
- 10 statements approved for final submission: Yes ☐ No (What have to be done) ☐
- Thesis should be submitted latest on:
- Estimated date of the defense:  
(earliest possible date: 3 months after submission)

### 5. Suggestions for the Doctoral Committee

Please obtain the commitment of the reviewers and committee members before you submit their names to Promovendus.

1) Chairman doctoral committee:

2) 1st reviewer

3) 2nd reviewer

4) Further member doctoral committee:

(= 3rd reviewer if the doctoral candidate published joint publications with the 2nd reviewer in the last three years before the opening of the doctoral procedure.)

5) Further member doctoral committee:

(e.g. Rigorosum examiner)

**Minute Taker,**

(PhD candidate is responsible for finding a minute taker)

Signature Ph.D. candidate:

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Signature Ph.D. thesis supervisor/Doktorvater:

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Signature Day-to-Day supervisor.

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Signature further member:

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After signature, please hand in this report to the office of Prof. Cuniberti

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10 Statements attached? Yes ☐ No ☐

No ☐