



Curriculum

for

Joint Doctor of Philosophy Degree in a Nexus Approach to the Sustainable Management of Environmental Resources (Joint PhD)

and

Joint Junior Doctoral Researcher Programme in a Nexus Approach to the Sustainable Management of Environmental Resources (JJDRP)

1 Joint Doctor of Philosophy Degree in a Nexus Approach to the Sustainable Management of Environmental Resources (Joint PhD)

1.1 Curriculum

1.1.1 The curriculum of the **Joint PhD** shall be as follows:

Semester	Course	Credits	Credits per semester
1	Resource Nexus I: Conceptual Foundations	5	
	Resource Nexus II: In practice	5	
	Dissertation	20	30
2	Resource Nexus III: Implementation and case studies	4	
	Advancing the Resource Nexus approach in the UN system	2	
	Dissertation	24	30
3	Advancing the Resource Nexus approach in the UN system	2	
	Dissertation	28	30
4	Advancing the Resource Nexus approach	2	
	Dissertation	28	30
5	Advancing the Resource Nexus approach in the UN system	2	
	Dissertation	28	30
6	Advancing the Resource Nexus approach in the UN system	2	
	Dissertation	28	30
7	Resource Nexus III: Implementation and case studies	1	
	Dissertation	29	30
Grand Total:			210

1.2 PhD Dissertation

- 1.2.1 Doctoral Candidates must submit a (paper-based) Dissertation in English.
- 1.2.2 The Dissertation shall follow the doctoral examination procedures issued by the TU Dresden Faculty of Environmental Sciences.
- 1.2.3 The oral defence is hosted at UNU-FLORES and it is subject to the TU Dresden Doctoral Regulations referred to in paragraphs 2 and 3 of Rule 4 above.
- 1.2.4 A copy of the Dissertation shall be lodged with the competent office at UNU-FLORES.

1.3 Completion of the Joint PhD Programme

- 1.3.1 Doctoral Candidates who have successfully completed the Joint PhD receive a PhD degree certificate in English with a German translation stating the award of the academic degree. The degree certificate shall be jointly signed by the Rector of UNU, the Rector of TU Dresden, the Director of UNU-FLORES, and the Dean of the Faculty of Environmental Sciences at TU Dresden, and it shall be marked with the seals of TU Dresden and UNU.

2 Joint Junior Doctoral Researcher Programme in a Nexus Approach to the Sustainable Management of Environmental Resources (JJDRP)

- 2.1.1 The JJDRP is a postgraduate credit-bearing programme offered by UNU to Doctoral Candidates supervised or co-supervised by UNU-FLORES supervisors. The curriculum comprises several modules presented over a period of six semesters, concurrently with the doctoral research studies for the Dissertation. The curriculum introduces Doctoral Candidates to the Resource Nexus approach and its relevance to the UN system.

2.2 Certificate

- 2.2.1 The certificate offered for the JJDRP shall be a UNU Certificate in a Nexus Approach to the Sustainable Management of Environmental Resources.
- 2.2.2 The certificate may be awarded when a minimum of 25 credit points has been earned.

2.3 Eligibility and Admission Requirements

- 2.3.1 Only Doctoral Candidates of the JJDRP Programme shall be eligible to take part in the Programme.
- 2.3.2 The UNU-FLORES Academic Committee decides on the selection of JJDRP Candidates based on the review and recommendation by the relevant GBJPE Sub-committee.

2.4 Curriculum

- 2.4.1 The curriculum of the JJDRP shall be as follows:

Semester	Course	Credits	Credits per semester
1	Resource Nexus I: Conceptual Foundations	5	
	Resource Nexus II: In practice	5	
2	Resource Nexus III: Implementation and case studies	4	
	Advancing the Resource Nexus approach in the UN system	2	
3	Advancing the Resource Nexus approach in the UN system	2	
4	Advancing the Resource Nexus approach in the UN system	2	
5	Advancing the Resource Nexus approach in the UN system	2	
6	Advancing the Resource Nexus approach in the UN system	2	
7	Resource Nexus III: Implementation and case studies	1	
Grand Total:		25	

3 Module descriptions

3.1 *Resource Nexus I: Conceptual Foundations*

Duration	Semester
Module level:	Doctoral
Description:	<p>This course introduces the learner to the conceptual foundations of the Resource Nexus approach to the sustainable and integrated management of environmental resources, covering the following topics:</p> <ul style="list-style-type: none">• the triple planetary crisis;• natural and environmental resources;• the sustainable and integrated management of environmental resources;• the role of systems analysis and modelling;• key and derived environmental resources, their interdependencies and interconnections;• the relationship in advancing the United Nations Sustainable Development Goals (SDGs); and• review of scientific literature to establish the state-of-the-art knowledge about the Resource Nexus approach on a specific topic.
Assessment:	Credit points are awarded upon passing the module assignment(s).
Credits	5

3.2 *Resource Nexus II: In practice*

Duration	Semester
Module level:	Doctoral
Description:	<p>This course covers practical application of the Resource Nexus approach, covering the following topics:</p> <ul style="list-style-type: none">• the Resource Nexus approach in different sectors, such as the textile, construction, food, agriculture or electronics sector;• examples of specific resource groupings and their systemic interdependencies and interconnections;• achieving impact with the implementation of the Resource Nexus approach by following the theory of change framework;• how to deal with actors and stakeholders involved in the Resource Nexus approach; and• development of an introductory chapter for a research study that applies the Resource Nexus approach.
Assessment:	Credit points are awarded upon passing the module assignment(s).
Credits	5

3.3 *Resource Nexus III: Implementation and case studies*

Duration	Multiple semesters
Module level:	Doctoral
Description:	<p>This course equips the learner with the knowledge and skills for implementing the Resource Nexus approach, covering the following:</p> <ul style="list-style-type: none">• apply methods and tools for the Resource Nexus approach in research and practice; and

	<ul style="list-style-type: none"> develop, implement and communicate the candidate's Resource Nexus research results and potential impacts.
Assessment:	Credit points are awarded upon passing the module assignment(s).
Credits	5

3.4 Advancing the Resource Nexus approach in the UN system

Duration	Multiple semesters
Module level:	Doctoral
Description:	<p>This course introduces the learner to the UN system, how the Resource Nexus relates to the UN and how to engage with stakeholder organizations, such as UN entities, international organizations, research institutes and universities, covering the following:</p> <ul style="list-style-type: none"> initiate, establish and develop partnerships, particularly with the UN, Member States and other stakeholder organizations; communicate the Resource Nexus approach and research findings to the scientific and professional community of UN Member States, e.g., through conference presentations, popular media articles and policy briefs; advocate the Resource Nexus approach, e.g., through social media and news items; and develop and present education and capacity development material about the Resource Nexus.
Assessment:	Credit points are awarded upon passing the module assignment(s).
Credits	10

3.5 Dissertation

Duration	7 semesters
Module level:	Doctoral
Description:	Refer to Definition 12 of these Rules and the doctoral regulations of the Faculty of Environmental Sciences.
Assessment:	The Dissertation examination follows the doctoral regulations of the Faculty of Environmental Sciences.
Credits	175