

Doctor of Philosophy Program in Nanoscience and Nanotechnology

Doctor of Philosophy Program in Nanoscience and Nanotechnology (International Program)

Ph.D. (Nanoscience and Nanotechnology)

Philosophy of the Program:

The Doctor of Philosophy Program in Nanoscience and Nanotechnology is an application of interdisciplinary fields integrating both pure science and applied science to create new innovations and body of knowledge at nano-level. It focusses on producing graduates who gain practical, analytical and synthesizing skills for conducting research and for self-development.

Professions after graduation

- 1. Researchers/Lecturers/Academics in science and/or nanotechnology
- 2. Nanotechnology developers
- 3. Consultants in science projects and/or nanotechnology
- 4. Analysts for science research projects and/or nanotechnology
- 5. Sale engineers providing services and technology for nanotechnology business

Curriculum

Plan 1.1 for student with Master degree	48 Credits
Plan 2.1 for student with Master degree	48 Credits
Plan 2.2 for student with Bachelor degree	72 Credits

Curriculum Components

Plan 1.1 for student with Master degree		
Dissertation	48	Credits
Plan 2.1 for student with Master degree		
Major Course	9	Credits
☐ Elective Course	3	Credits
Dissertation	36	Credits
Plan 2.2 for student with Bachelor degree		
Major Course	9	Credits
☐ Elective Course	12	Credits
Seminar	3	Credits
Dissertation	48	Credits



Doctor of Philosophy Program in Nanoscience and Nanotechnology

COURSE STRUCTURE

Plan 1.1 for student with Master degree

First	Year
-------	------

First Semester	Credits
NST 794 Dissertation	8(0-16-32)
Total	<u>8(0-16-32)</u>
Second Semester	Credits
NST 794 Dissertation	8(0-16-32)
NST 692 Seminar III	1(0-2-3) (S/U)
Total	<u>8(0-18-35)</u>

Second Year

Credits
8(0-16-32)
1(0-2-3) (S/U)
8(0-18-35)
Credits
8(0-16-32)
8(0-16-32)
Credits
8(0-16-32)
8(0-16-32)
Credits

Plan 2.1 for student with Master degree

8(0-16-32)

First Year

Total

First Semester	Credits
NST 601 Introduction to Nanoscience and Nanotechnology	3(3-0-9)
NST 602 Fabrication and Characterization in Nanotechnology	3(3-0-9)
NST 603 Research Methodology for Nanoscience and Nanotechnology	3(3-0-9)
XXX xxx Selective1	3(3-0-9)
Total	12(12-0-36)

Second Semester	Credits
NST 793 Dissertation	6(0-12-24)



Doctor of Philosophy Program in Nanoscience and Nanotechnology

NST 692 Seminar III	1(0-2-3) (S/U)
Total	<u>6(0-14-27)</u>
Second Year	
First Semester	Credits
NST 793 Dissertation	6(0-12-24)
NST 693 Seminar IV	1(0-2-3) (S/U)
Total	<u>6(0-14-27)</u>
Second Semester	Credits
NST 793 Dissertation	8(0-16-32)
Total	<u>8(0-16-32)</u>
Third Year	
First Semester	Credits
NST 793 Dissertation	8(0-16-32)
Total	<u>8(0-16-32)</u>
Second Semester	Credits
NST 793 Dissertation	8(0-16-32)
Total	8(0-16-32)

Plan 2.2 for student with Bachelor degree

First Year	
First Semester	Credits
NST 601 Introduction to Nanoscience and Nanotechnology	3(3-0-9)
NST 602 Fabrication and Characterization in Nanotechnology	3(3-0-9)
NST 603 Research Methodology for Nanoscience and Nanotechnology	3(3-0-9)
XXX xxx Selective1	3(3-0-9)
Total <u>12</u>	(12-0-36)
Second Semester Credits	;
NST 601 Introduction to Nanoscience and Nanotechnology	3(3-0-9)
NST 602 Fabrication and Characterization in Nanotechnology	3(3-0-9)
NST 603 Research Methodology for Nanoscience and Nanotechnology	3(3-0-9)
NST 794 Dissertation	2(0-4-8)
NST 691 Seminar II	1(0-2-3)
XXX xxx Selective2	3(3-0-9)
XXX xxx Selective3	3(3-0-9)
Total	9(6-6-29)

Second Year

First Semester	Credits
NST 692 Seminar III	1(0-2-3)



Doctor of Philosophy Program in Nanoscience and Nanotechnology

NST 794 Dissertation	2(0-4-8)
XXX xxx Selective4	3(3-0-9)
Total	<u>6(3-6-20)</u>
Second Semester	Credits
NST 794 Dissertation	5(0-10-20)
NST 693 Seminar IV	1(0-2-3)
Total	6(0-12-23)

Third Year

First Semester	Credits
NST 794 Dissertation	6(0-12-24)
Total	<u>6(0-12-24)</u>
Second Semester	Credits
NST 794 Dissertation	6(0-12-24)
Total	6(0-12-24)

Forth Year

First Semester	Credits
NST 794 Dissertation	6(0-12-24)
Total	6(0-12-24)
Second Semester	Credits
NST 794 Dissertation	6(0-12-24)
Total	<u>6(0-12-24)</u>

Fifth Year

First Semester	Credits
NST 794 Dissertation	8(0-16-32)
Total	<u>8(0-16-32)</u>
Second Semester	Credits
NST 794 Dissertation	7(0-14-28)

Total <u>7(0-14-28)</u>