

## CURRICULUM

### Master Program

Curriculum consists of 43 credits during 4 semesters. All Subjects are offered in all semesters. Publication and thesis can be completed in semesters 3 and 4. The students who has a very good performance can do completion within 3 semesters.

Subject	Credits
<b>Semester 1 (21 credits)</b>	
Engineering Analysis I (Mandatory)	3
Engineering Analysis II (Mandatory)	3
Renewable Energy (Mandatory)	3
Advanced Material Engineering (Mandatory)	3
Research Methodology and Proposal Writing (Mandatory)	3
Optional concentration 1 (Optional)	3
Optional concentration 2 (Optional)	3
<b>Semester 2 (9 credits)</b>	
Mandatory concentration 1 (Mandatory)	3
Mandatory concentration 2 (Mandatory)	3
Mandatory concentration 3 (Optional)	3
<b>Semester 3 and 4 (13 credits)</b>	
Publication (Mandatory)	3
Thesis (Mandatory)	10

### Doctoral Programs :

Curriculum consists of 48 credits during 6 semesters. This constitutes the academic activities in the form of mandatory and optional subjects according to the research topic, research proposal for dissertation, seminar of research proposal, conducting research, writing dissertation and publication in a presentation of international scientific conference and two articles in the reputable international journals indexed by Scopus and possessed the Impact Factor complying with Kemenristekdikti.

Subject	Credits
<b>Semester I</b>	
Subject 1: Research Methodology and Philosophy of Science	3
Subject 2: Optional Subject 1	3
Proposal Research	2
<b>Semester II</b>	
Subject 3: Optional Subject 2	3
Seminar of Research Proposal	5
<b>Semester III</b>	
Research and Achievement 1	3
Publication 1	5
<b>Semester IV</b>	
Research and Achievement 2	3
Publication 2	5
<b>Semester V</b>	
Research and Achievement 3	3
Publication 3	5
<b>Semester VI</b>	
Final Defence	5
Public Hearing	3

## APPLICATION AND ENTRANCE EXAMINATION

Application starts from 1 June – 15 July 2016. A written examination will be held on 23 July 2016. The entrance examination schedule is provided in the following URL:

<http://spmb.uns.ac.id/index.php?idMn=76&lang=id&kdMn=F>

The entrance examination consists of the following tests:

1. Test of academic potency
2. Test of English proficiency
3. Interview.

Tests of academic potency and English proficiency are held by the university. Interview is conducted by Master and Doctoral Programs to know regarding the preparation and motivation (research readiness, financial support etc.)

## INFORMATION

For further information, please do not hesitate to contact the following persons:

### Dr. Triyono, M.T.

Head of Master Program in Mechanical Engineering  
Mobile phone: +62-812-2628-486 (call, SMS, WA, Line)  
E-mail: triyono74@staff.uns.ac.id

### Agung Tri Wijayanta, M.Eng., Ph.D.

Head of Doctoral Program in Mechanical Engineering  
Mobile phone: +62-821-3453-3511 (call, SMS, WA, Line)  
E-mail: agungtw@uns.ac.id

## POSTGRADUATE PROGRAM

# MECHANICAL ENGINEERING

MASTER AND DOCTORAL PROGRAMS



MASTER PROGRAM OF MECHANICAL ENGINEERING  
ACCREDITATION B: No. 046/SK/BAN-PT/Ak-X/M/II/2013  
DOCTORAL PROGRAM OF MECHANICAL ENGINEERING  
DECREE OF MENRISTEKDIKTI: No. 62/KPT/1/2016



**SEBELAS MARET UNIVERSITY**

Jl. Ir. Sutami 36A Kentingan, Surakarta, 57126, Indonesia

**MASTER PROGRAM OF MECHANICAL ENGINEERING**  
**ACCREDITATION B: No. 046/SK/BAN-PT/Ak-X/M/II/2013**

**DOCTORAL PROGRAM OF MECHANICAL ENGINEERING**  
**DECREE OF MENRISTEKDIKTI: No. 62/KPT/1/2016**

### POSTGRADUATE PROGRAM IN MECHANICAL ENGINEERING

The contribution of engineering leading to the modern era who make our life easier has been felt together. The advanced orientation of mechanical engineering focuses currently on the renewable and sustainable based technology with low environmental impact. The concentration of mechanical engineering in the field of renewable energy conversion including the corresponding science of material engineering becomes essential for being possessed.

Postgraduate Program in Mechanical Engineering UNS is held to provide the high quality graduations of Master and Doctoral degrees with the competency of renewable energy conversion and material engineering for supporting the construction of renewable energy conversion.

### LECTURERS AND SUPERVISORS

Name	E-mail address	Expertise
Agung Tri Wijayanta, Ph.D.	agungtw@uns.ac.id	Heat transfer, bioenergy
Budi Kristiawan, Dr.	budi_k@staff.uns.ac.id	Nano fluida, nano technology
Budi Santoso, Dr.	msbudis@yahoo.co.id	Two-phase flow
Dody Ariawan, Ph.D.	dodyariawan0@gmail.com	Composite technology
Dominicus Danardono, Ph.D.	danar1405@gmail.com	Aerodynamics, simulation
Dwi Aries, Dr., Prof.	dwiarieshimawanto@gmail.com	Pirolisys
Eko Surojo, Dr.	esurojo@yahoo.com	Metallurgy, tribology
Joko Triyono, Dr.	jokotri5528@gmail.com	Biomaterial, material proses
Kuncoro Diharjo, Dr., Prof.	kuncorodiharjo@ft.uns.ac.id	Composite material
Nurul Muhayat, Dr.	nurulmuhayat@ymail.com	Welding, material proses
Suyitno, Dr. techn.	suyitno@gmail.com	Nano technology, surfactant
Syamsul Hadi, Dr. Eng.	syamsulhadi@ft.uns.ac.id	Thermal sensor
Triyono, Dr.	triyono74@staff.uns.ac.id	Metallurgy, welding

### REQUIREMENTS

#### Master Program:

Bachelor degree from in the field of engineering sciences of mechanical engineering, metallurgy, material engineering, engineering physics, chemical engineering; natural science including physics, chemistry, material science.

#### Doctoral Program:

Bachelor degree from the major of mechanical engineering and/or Master degree in the field of mechanical engineering.

### TUITION FEE FOR INTERNATIONAL STUDENT

**Master Program : IDR 10,950,000 per semester**  
**Doctoral Program : IDR 17,000,000 per semester**