



**ACADEMIC HANDBOOK OF BACHELOR PROGRAMS  
FACULTY OF PUBLIC HEALTH  
UNIVERSITAS AIRLANGGA  
ACADEMIC YEAR 2021/2022**

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KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,  
RISET, DAN TEKNOLOGI  
UNIVERSITAS AIRLANGGA

**FAKULTAS KESEHATAN MASYARAKAT**

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**SALINAN**

**KEPUTUSAN  
DEKAN FAKULTAS KESEHATAN MASYARAKAT  
NOMOR 237/UN3.1.10/2021**

**TENTANG**

**TIM PENYUSUN BUKU PANDUAN PENDIDIKAN PROGRAM SARJANA  
FAKULTAS KESEHATAN MASYARAKAT UNIVERSITAS AIRLANGGA**

**TAHUN AKADEMIK 2021/2022**

**DEKAN FAKULTAS KESEHATAN MASYARAKAT  
UNIVERSITAS AIRLANGGA,**

- Menimbang : a. bahwa guna mendukung pembelajaran Mahasiswa Baru Program Sarjana Fakultas Kesehatan Masyarakat Universitas Airlangga Tahun Akademik 2021/2022, dipandang perlu menetapkan Buku Panduan Pendidikan;
- b. bahwa untuk menetapkan Buku Panduan Pendidikan Program Pendidikan Sarjana perlu dibentuk Tim Penyusun Buku Panduan Pendidikan Fakultas Kesehatan Masyarakat Universitas Airlangga Tahun Akademik 2021/2022;
- c. bahwa berdasarkan pertimbangan sebagaimana dimaksud dalam huruf a dan huruf b, perlu menetapkan Keputusan Dekan tentang Tim Penyusun Buku Panduan Pendidikan Bagi Mahasiswa Program Sarjana Fakultas Kesehatan Masyarakat Universitas Airlangga Tahun Akademik 2021/2022.
- Mengingat : 1. Undang-Undang Nomor 20 Tahun 2003 tentang Sistem Pendidikan Nasional (Lembaran Negara Republik Indonesia Tahun 2003 Nomor 78, Tambahan Lembaran Negara Republik Indonesia Nomor 4301);
2. Undang-Undang Nomor 12 Tahun 2012 tentang Pendidikan Tinggi (Lembaran Negara Republik Indonesia Tahun 2012 Nomor 158, Tambahan Lembaran Negara Republik Indonesia Nomor 5336);
3. Peraturan Pemerintah Republik Indonesia Nomor 57 Tahun 1954 tentang Penetapan Universitas Airlangga di Surabaya sebagaimana telah diubah dengan Peraturan Pemerintah Nomor 3 tahun 1955 tentang Pengubahan Peraturan Pemerintah Nomor 57 Tahun 1954 (Lembaran Negara Republik Indonesia Tahun 1954 Nomor 99, Tambahan Lembaran Negara Republik Indonesia Nomor 695 juncto Lembaran Negara Republik Indonesia Tahun 1955 Nomor 4 Tambahan Lembaran Negara Nomor 748);

4. Peraturan Pemerintah Republik Indonesia Nomor 4 Tahun 2014 tentang Penyelenggaraan Pendidikan Tinggi dan Pengelolaan Perguruan Tinggi. (Lembaran Negara Republik Indonesia Tahun 2014 Nomor 16, Tambahan Lembaran Negara Nomor 5500);
5. Peraturan Pemerintah Republik Indonesia Nomor 30 Tahun 2014 tentang Statuta Universitas Airlangga. (Lembaran Negara Republik Indonesia Tahun 2014 Nomor 100, Tambahan Lembaran Negara Nomor 5535);
6. Keputusan Mendikbud Republik Indonesia Nomor 0372/O/1993 dan ralatnya Nomor 70539/A6.1/U/1993 tentang Pembukaan Fakultas Kesehatan Masyarakat serta Fakultas Psikologi Universitas Airlangga Jo. Keputusan Mendikbud Republik Indonesia Nomor 0192/O/1995, sebagaimana telah diubah/ditambah dengan Keputusan Mendikbud Republik Indonesia Nomor 0276/O/1996 tentang organisasi dan tata kerja Universitas Airlangga;
7. Keputusan Mendiknas Republik Indonesia Nomor 232/U/2000, tentang Pedoman Penyusunan Kurikulum Pendidikan Tinggi dan Penilaian Hasil Belajar Mahasiswa;
8. Peraturan Rektor Universitas Airlangga Nomor 11 Tahun 2020 tentang Pedoman Pendidikan Universitas Airlangga;
9. Keputusan Rektor Universitas Airlangga No. 16884/H3/KR/2012, tentang Penetapan Kurikulum Program Studi pada Fakultas Masyarakat Universitas Airlangga;
10. Keputusan Rektor Universitas Airlangga 762/UN3/2020, tentang Pengangkatan Dekan Fakultas, Direktur Sekolah Pascasarjana dan Direktur Rumah Sakit Universitas Airlangga Periode 2020-2025;
11. Keputusan Rektor Nomor 660/UN3/2021 tentang Penetapan Kurikulum Program Sarjana pada Program Studi Kesehatan Masyarakat Diluar Kampus Utama Banyuwangi pada Fakultas Kesehatan Masyarakat;
12. Keputusan Rektor Nomor 661/UN3/2021 tentang Penetapan Kurikulum Program Sarjana pada Program Studi Kesehatan Masyarakat pada Fakultas Kesehatan Masyarakat;
13. Keputusan Rektor Nomor 662/UN3/2021 tentang Penetapan Kurikulum Program Sarjana pada Program Studi Gizi pada Fakultas Kesehatan Masyarakat;

Memperhatikan : Memo Wakil Dekan 1 Fakultas Kesehatan Masyarakat Universitas Airlangga :

1. SK Buku Panduan Pendidikan Program Sarjana, Magister dan Doktor.
2. SK Tim Penyusun Buku Panduan Pendidikan Program Sarjana, Magister dan Doktor.

**MEMUTUSKAN :**

- Menetapkan : **KEPUTUSAN DEKAN FAKULTAS KESEHATAN MASYARAKAT UNIVERSITAS AIRLANGGA TENTANG TIM PENYUSUN BUKU PANDUAN PENDIDIKAN PROGRAM SARJANA FAKULTAS KESEHATAN MASYARAKAT UNIVERSITAS AIRLANGGA TAHUN AKADEMIK 2021/2022.**
- KESATU : Membentuk Tim Penyusun Buku Panduan Pendidikan Program Sarjana Fakultas Kesehatan Masyarakat Universitas Airlangga, dengan susunan personalia sebagaimana tercantum dalam Lampiran Keputusan ini.
- KEDUA : Tim bertugas menyusun buku yang berisi Panduan Pendidikan Program Sarjana Fakultas Kesehatan Masyarakat Universitas Airlangga Tahun Akademik 2021/2022.
- KETIGA : Dalam melaksanakan tugasnya, Tim sebagaimana dimaksud pada Diktum KESATU berpedoman pada peraturan dan ketentuan-ketentuan yang berlaku serta memberikan laporan pertanggung jawaban kepada Dekan.
- KEEMPAT : Biaya untuk pelaksanaan ini dibebankan pada dana Rencana Kerja dan Anggaran Tahunan (RKAT) Fakultas Kesehatan Masyarakat Universitas Airlangga.
- KELIMA : Keputusan ini mulai berlaku pada tanggal ditetapkan.

Ditetapkan di Surabaya  
Pada tanggal 24 September 2021

-----  
DEKAN,

t.t.d.

**SANTI MARTINI**  
NIP 196609271997022001

**Salinan disampaikan kepada Yth.**

1. Pimpinan Unit Kerja terkait;
2. Ketua Departemen;
3. Koordinator Program Studi;
4. Kepala Bagian Tata Usaha  
di lingkungan FKM UNAIR

Salinan sesuai dengan aslinya  
Kepala Bagian Tata Usaha,  
  
**SUNAWAN HERU SANTOSO**  
NIP 197806022008101001



**LAMPIRAN KEPUTUSAN DEKAN FAKULTAS KESEHATAN MASYARAKAT  
UNIVERSITAS AIRLANGGA**

**NOMOR : 237/UN3.1.10/2021, TANGGAL 24 SEPTEMBER 2021**

**TENTANG : TIM PENYUSUN BUKU PANDUAN PENDIDIKAN PROGRAM  
SARJANA PROGRAM STUDI KESEHATAN MASYARAKAT  
FAKULTAS KESEHATAN MASYARAKAT UNIVERSITAS  
AIRLANGGA TAHUN AKADEMIK 2021/2022.**

- Pelindung : Dr. Santi Martini, dr., M.Kes. (Dekan)
- Penanggung Jawab : Dr. Nyoman Anita Damayanti, drg., M.S. (Wakil Dekan I)
- Narasumber
1. Dr. Moh. Atoillah Isfandari, dr., M.Kes (Wakil Dekan II)
  2. Trias Mahmudiono, S.KM., M.PH (Nutr.), Ph.D.GCAS (Wakil Dekan III)
  3. Dr. Mahmudah, Ir., M.Kes (Ketua SPM)
- Tim Penyusun
1. Dr. Muji Sulistyowati, S.KM., M.Kes
  2. Lailatul Muniroh, S.KM., M.Kes.
  3. Dr. Mohammad Zainal Fatah, Drs., M.S.,M.Kes
  4. Dr. Abdul Rohim Tualeka,Drs., M.Kes.
  5. Dr. Ir. Lilis Sulistyorini, M.Kes.
  6. Dr. Ratna Wulandari, S.KM., M.Kes
  7. Dr. Fariani Syahrul, S.KM., M.Kes
  8. Dr. Siti Nadhiroh, S.KM., M.Kes
  9. Qonita Rachmah, S.Gz., M.Sc
  10. Stefania Widya Setyaningtyas, S.Gz., M.PH.
  11. Septa Indra Puspitakawati, S.KM., M.PH
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  2. Suwadi, S.Sos
  3. Heri Pranoto, SE
  4. Puguh Suroto, S.Sos
  5. Agung Perbowo D.P.
  6. Harlina Aisyah turrahmah, A.Md.
  7. Eka Putri Arifanty, S.Gz.
  8. Irawati, SH
  9. Selly Diana Saputri, S.KM
  10. Chintya Devi, S.KM

Ditetapkan di Surabaya  
Pada tanggal 24 September 2021  
DEKAN,

t.t.d.

**SANTI MARTINI**  
NIP 196609271997022001





## **PREFACE**

Assalamu'alaikum Wr. Wb

Students that I am proud of,

Welcome and congratulations on your success in being accepted as a student of Faculty of Public Health Universitas Airlangga. You should be grateful to God Almighty, because you are one of the thousands of prospective students accepted by Airlangga University in general and by Faculty of Public Health in particular. Therefore, you must uphold the alma mater of Universitas Airlangga, especially in the Universitas Airlangga community.

By expressing gratitude to the presence of God Almighty, the preparation of the Education Guidelines for the Faculty of Public Health Undergraduate Program for the 2021/2022 academic year has been completed, which is a refinement or improvement of the previous guidebook. This Education Handbook is prepared with the aim of providing important information in the field of education / academics in addition to containing the history, vision and mission and objectives of study programs at Faculty of Public Health Universitas Airlangga. What you need to know as a student is that this Education Handbook is very important, because at any time, during your education at Faculty of Public Health, you must always look back at all educational regulations and teaching subjects that must be followed every semester which have been described in full in this book. It is possible that the regulations that apply to you are different from those that apply to the class before you. You need to note that in programming the study plan on the Study Plan Card (KRS), the Subjects that must be taken are in the form of compulsory Subjects, elective Subjects and or specialization Subjects (specifically for the Bachelor of Public Health Study Program).

It is hoped that this book can become a binding joint guideline for lecturers, students, and educational staff so that the learning process can be carried out in an orderly, smooth, organized and accountable manner. This guideline still has shortcomings and will be perfected in the future.

Finally, I congratulate all students, hopefully you can complete your education program at Faculty of Public Health Universitas Airlangga on time and successfully with the title "With Honors". I also express my highest appreciation to the members of the Guidebook Compilation Team who have worked hard to complete the task so that the results are very useful for the entire academic community of Faculty of Public Health Universitas Airlangga.

Wassalamu'alaikum Wr. Wb. That's all, thank you.

Surabaya, September 2021

Dean,

Dr. Santi Martini, dr., M.Kes

NIP 196609271997022001



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## **PROGRAM PROFILE OF THE BACHELOR PROGRAM IN PUBLIC HEALTH SURABAYA**

1. Study Program : Bachelor of Public Health
2. Department : 1. Department of Epidemiology, Biostatistics and Population Studies, and Health Promotion
  - a. Division of Epidemiology
  - b. Division of Health Promotion and Behavioral Science
  - c. Division of Biostatistics and Population Studies2. Department of Environmental Health
3. Faculty : Public Health
4. University : Universitas Airlangga
5. Decree Number of Study Program Establishment: 117/Dikti/Kep/1984
6. Date of Decree : September 24<sup>th</sup>, 1984
7. Month and Year of Study Programs
  - First Implementation : 22 Agustus 1984  
(The Rector Decree No. 5076/PT.03.1/1/1984)
8. Address : Kampus C Unair, Jl. Mulyorejo Surabaya
9. Telephone/Fax : (031) 5920948, 5920949 fax (031) 5924618
10. Email Study Program : s1kesmas@fkm.unair.ac.id
  - E-mail Faculty : info@fkm.unair.ac.id
  - E-mail Dean : dekan@fkm.unair.ac.id
  - E-mail Vice Dean I : wadek-1@fkm.unair.ac.id
  - E-mail Vice Dean II : wadek-2@fkm.unair.ac.id
  - E-mail Vice Dean III : wadek-3@fkm.unair.ac.id
11. Homepage : <https://s1kesmas.fkm.unair.ac.id/>

12. Accreditation Status :

- a. Accredited A (1998 – 2004)
- b. Accredited B (2004 – 2009)
- c. Accredited A (2009 – 2013)
- d. Accredited A (2013 – 2019)
- e. **Accredited A** (2019 – 2024) based of Decree of LAMPTKES No. 0332/LAM-PTKES/Akr/Sar/VI/2019 - <https://fkm.unair.ac.id/sertifikasi-akreditasi-program-studi/>
- f. Certified by **Asia University Network-Quality Assurance (AUN-QA)** in the **Certificate of QA Standard**
- g. Certified by **the Agency of Public Health Education Accreditation (APHEA)** in the **Certificate of Curriculum Validation**
- h. Internationally Accredited by **the Agency of Public Health Education Accreditation (APHEA)** in the **Certificate of Program Accreditation** valid from December 18<sup>th</sup>, 2019, until December 17<sup>th</sup>, 2025  
[https://www.aphea.be/Pages/A3.PROGRAMMES/Accredited\\_Programmes.html](https://www.aphea.be/Pages/A3.PROGRAMMES/Accredited_Programmes.html)

## **PROGRAM PROFILE OF THE BACHELOR PROGRAM IN NUTRITION**

1. Study Program : Bachelor of Nutrition
2. Department : Nutritions
3. Faculty : Public Health
4. University : Universitas Airlangga
5. Decree Number of Study Program Establishment : 6093/UN3/KR/2013
6. Date of Decree : April 15<sup>th</sup>, 2013
7. Month and Year of the Study Programs  
First Implementation : August 2013
8. Address : Department of Nutrition, Faculty of Public Health  
Universitas Airlangga Kampus C Unair, Jl. Mulyorejo  
Surabaya
9. Telephone/Fax : (031) 5964808, 5920949 fax (031) 5924618
10. E-mail Faculty : info@fkm.unair.ac.id  
E-mail Study Program : prodigizi@fkm.unair.ac.id
11. Homepage : <http://S1gizi.fkm.unair.ac.id>
12. Accreditation Status : Accredited A  
Based of Decree of LAMPTKes  
No.0362/Lam-PTKes/Akr/Sar/V/2018  
Valid from May 26<sup>th</sup>, 2018, until May 25<sup>th</sup>, 2023



## **PROGRAM PROFILE OF THE BACHELOR PROGRAM IN PUBLIC HEALTH *SEKOLAH ILMU KESEHATAN DAN ILMU ALAM (SIKIA)***

1. Study Program : Bachelor of Public Health
2. Faculty : Public Health
3. University : Universitas Airlangga
4. Decree Number of Study Program Establishment : 274/E/O/2014
5. Date of Decree : July 24<sup>th</sup>, 2014
6. Month and Year of the Study Programs : Juli 2014
7. Address : Jalan Ikan Wijinongko No. 18A, Sobo Banyuwangi 68416
8. Telephone/Fax : 0333-417788, 0333-428890
9. e-mail Faculty : info@fkm.unair.ac.id
- e-mail Study Program : kesehatanmasyarakat@sikia.unair.ac.id
10. Homepage : <https://sikia.unair.ac.id/kesmas/>
11. Accreditation Status : Accredited B

Based of Decree of LAMPTKes

No.: 0250/LAM-PTKes/ Akr/Sar/IV/2018

Valid from April 14<sup>th</sup>, 2018, until April 13<sup>th</sup>, 2023

**STRUCTURAL OFFICIALS OF THE  
FACULTY OF PUBLIC HEALTH  
UNIVERSITAS AIRLANGGA**

Dean	: Dr. Santi Martini, dr., M.Kes
Vice Dean I	: Prof. Dr. Nyoman Anita Damayanti, drg., M.S.
Vice Dean II	: Dr. M. Atoillah Isfandiari, dr., M.Kes.
Vice Dean III	: Trias Mahmudiono, S.KM., M.PH., GCAS., Ph.D.
Head of Administration	: Dr. Yuniawan Heru Santoso, S.E., S.Sos.
Head of Academic Affairs Subdivision	: Suwadi, S.Sos.
Head of Student Affairs Subdivision	: Saikhon, S.Sos.
Head of Facilities and Infrastructures Subdivision	: Imam Shobari, S.T.
Head of Finance and Human Resource Divisions	: Mardiana, Dra. Ec., M.PSDM.

**STRUCTURAL OFFICIALS OF  
THE BACHELOR PROGRAM IN PUBLIC HEALTH**

Coordinator of Study Program	: Dr. Muji Sulistyowati, SKM., M.Kes
Secretary of Study Program	: Kurnia Dwi Artanti, dr., M.PH
Chief of Quality Control Circle	: Dr. Soenarnatalina Melaniani, Ir., M.Kes
Secretary of Quality Control Circle	: Aditya Sukma P, SKM., M.KL

**FIELDWORK AND INTERNSHIPS COORDINATORS FOR  
THE BACHELOR PROGRAM IN PUBLIC HEALTH,  
FACULTY OF PUBLIC HEALTH,  
UNIVERSITAS AIRLANGGA**

1. Fieldwork : 1) Zida Husnina, SKM., MPH  
2) Shintia Yunita Arini, S.KM, M.KKK
  
2. Internships : Dr. Lucia Y. Hendrati, SKM., M.Kes

## **STRUCTURAL OFFICIALS OF THE BACHELOR PROGRAM IN NUTRITION**

Coordinator of Study Program	: Lailatul Muniroh, SKM., M.Kes
Secretary of Study Program	: Qonita Rachmah, S.Gz., M.Sc
Chief of Quality Control Circle	: Dr. Annis Catur Adi, Ir., M.Si
Secretary of Quality Control Circle	: Septa Indra Puspikawati, S.KM., M.PH

**INTERNSHIPS COORDINATORS FOR  
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FACULTY OF PUBLIC HEALTH,  
UNIVERSITAS AIRLANGGA**

1. Nutrition Food Entrepreneurship Internships : Dr. Siti Rahayu Nadhiroh, S.KM., M.Kes
2. Dietetic Internships : Stefania Widya Setyaningtyas, S.Gz., M.PH
3. Community Nutrition Internships : Dr. Siti Rahayu Nadhiroh, S.KM., M.Kes

## **STRUCTURAL OFFICIALS OF THE BACHELOR PROGRAM IN PUBLIC HEALTH (SIKIA)**

Coordinator of Study Program : Dr. Mohammad Zainal Fatah, Drs., MS., M.Kes.

Secretary of Study Program : Syifa'ul Lailiyah, SKM., M.Kes.

Chief of Quality Control Circle : Desak Made Sintha Kurnia Dewi, SKM., M.Kes.

Secretary of Quality Control Circle : Khuliyah C. Diyanah, SKM., M.KL



**FIELDWORK AND INTERNSHIPS COORDINATORS FOR  
THE BACHELOR PROGRAM IN PUBLIC HEALTH (SIKIA),  
FACULTY OF PUBLIC HEALTH,  
UNIVERSITAS AIRLANGGA**

1. Fieldwork : Jayanti Dian Eka Sari, SKM., M.Kes.
2. Internships : Jayanti Dian Eka Sari, SKM., M.Kes.

# CHAPTER I

## INTRODUCTION

### 1.1 HISTORY

#### 1.1.1 The History of the Faculty of Public Health

The Faculty of Public Health, Universitas Airlangga, or FKM Unair, was officially established after the issuance of the Decree of the Minister of Education and Culture No. 0372/O/1993 dated October 21, 1993, concerning the Opening of the Faculty of Public Health and Psychology in Universitas Airlangga, which was later rectified by the Decree of the Minister of Education and Culture No. 70539/A6.1/U/1993.

The faculty building was inaugurated on September 9, 1995, by the Rector, Prof. dr. H. Bambang Rahino Setokoesoemo, with a land area of 18,947,930 m<sup>2</sup> and a building area of 11,695,551 m<sup>2</sup> (3 floors) at Campus C, Mulyorejo Street, Surabaya (previously occupying the Basic Natural Science (BNS) building at Campus A Mayjen Prof. Dr. Moestopo Street).

Since the Faculty was founded, the names of the Deans from the beginning to the present are as follows:

1. Prof. Dr. Rika Subarniati, dr., S.KM  
Period of 1994 s.d 1997 and 1997 s.d 2000
2. Prof. Dr. Tjipto Suwandi, M.OH., dr., Sp.OK.  
Period of 2000 s.d 2004, extended to 2007
3. Prof. Dr. J. Mukono, dr., M.S., M.PH.  
Period of 2007- 2010
4. Prof. Dr. Tri Martiana, dr., M.S.  
Period of 2010-2020
5. Dr. Santi Martini, dr., M.Kes.  
Period of 2020-present

#### 1.1.2 The History of the Bachelor Program in Public Health

The Bachelor Program in Public Health, organized by the Faculty of Public Health, was initially administered by the Faculty of Medicine as the Bachelor Program in Public Health Science. It was opened in 1984, according to the Decree of the Director General of Higher Education of the Department of Education and Culture

No. 117/DIKTI/Kep/1984, dated September 24, 1984. The Coordinator position for the Bachelor Program in Public Health Science, Faculty of Medicine, Universitas Airlangga, was occupied by Prof. Dr. Sabdoadi, M.P.H. (from 1984 to 1991). Then it was held by Prof. dr. Soeprpto As., D.PH. (from 1991 to 1993).

At its inception in 1984, the Bachelor Program in Public Health only accepted students who graduated from a linear 3-Year Associate Program in Health from 3 (three) academies under the Department of Health: the Academy of Nutrition, Academy of Nursing, and Academy of Health Inspector or Academy of Environmental health. The students should have also been working for a minimum of 2 (two) years.

Furthermore, to increase its capacity and improve its education quality, the Bachelor Program in Public Health FKM Unair also accepted graduates from 3-Year Associate Programs in Industrial Hygiene and Occupational Health and Safety, as well as from non-linear health academies, such as the Academy of Anesthesia, Academy of Midwifery, Academy of Refractionist or Opticians, Radiology, Dental Health Engineering, Physiotherapy, and Medical Analyst, with the pre-program certificate issued by FKM Unair. They were educated in 4 (four) semesters or 2 (two) years to earn the Bachelor's Degree in Public Health.

The opening of the faculty required it to accept senior high school graduates. Therefore, in 1985, the Bachelor Program in Public Health at the Faculty of Medicine, Universitas Airlangga, started to take students graduating from senior high schools through the New Student Admission Selection (Sipenmaru), besides the particular selection of students graduating from the Associate Program. The particular selection was conducted in collaboration with the Bachelor Programs in Public Health in five universities in Indonesia: Universitas Indonesia, Jakarta; Universitas Diponegoro, Semarang; Universitas Airlangga, Surabaya; Universitas Hasanudin, Makassar, and the Department of Health of the Republic of Indonesia.

According to the Decree of the National Accreditation Board for Higher Education (BAN-PT) of the Department of Education and Culture No. 001/BAN-PT/Ak-1/VIII/1998, dated August 11, 1998, regarding the Result and Ranking of Bachelor Program Accreditation, the Bachelor Program in Public Health, FKM Unair, was accredited A.

The study programs ranked A and B must be re-evaluated no later than five years from the accreditation date. After re-accredited, according to the Decree of BAN-PT of the Department of National Education No. 022/BAN-PT/Ak-VIII/ S1/VI/2004,

dated June 17, 2004, regarding the Result and Ranking of Bachelor Program Accreditation, the Bachelor Program in Public Health, FKM Unair, was ranked B. However, in 2009, the Bachelor Program in Public Health, FKM Unair, was accredited A again according to the Decree of BAN-PT of the Department of National Education No. 462/SK/BAN-PT/Akred/S/XII/2014, dated December 8, 2014.

### **1.1.3 The History of Bachelor Program in Nutrition**

Rapid nutrition science advancement and development is in line with medical and health science development. The nutrition science institution, which was formerly started with the 1-Year Associate Degree, has expeditiously advanced following health development until the Bachelor and Doctoral Degrees. The requirement of nutrition science development is not only limited to the academic but also to the professional levels. This indicates the increasing standard of health services and quality and the growing complexity of health problems related to food and nutrition faced by human beings in the following decades.

Likewise, in Indonesia, the Indonesian government's commitment to promoting the welfare of its citizen manifests in the form of health improvement, which also covers nutrition. It is proven by determining nutrition status improvement as one of the priorities in the 2010-2014 Health Development. The objective is to reduce malnutrition prevalence based on the 1996 Declaration of the World Food Summit as outlined in the 2015 Millennium Development Goals (MDGs). The nutrition status improvement endeavors are also based on the Law No. 36 of 2009 on Nutrition, specifically on Article 141, Paragraph 1, stating that efforts are taken to improve individual and community nutrition quality. One of the critical factors influencing the success of nutrition improvement is the condition of the existing nutrition professionals.

Challenges related to the nutrition professionals factor comprise insufficiency of the total nutrition professionals and incompatibility between the nutrition professionals' competence and the program developed or the problem encountered. As one of leading Indonesia's higher education institutions, FKM Unair is expected to substantially contribute to the country by fulfilling the qualified nutrition professionals who can provide alternative strategies to deal with and solve complex nutrition-related community health problems. Consequently, it is necessary to strive for the inception of the Bachelor Program in Nutrition to arrange and accelerate the fulfillment of the nutrition professionals' requirements.

Therefore, the Bachelor Program in Nutrition was established in April 2013 according to the Decree of the Rector of Universitas Airlangga No. 6093/UN3/KR/2013, dated April 15, 2013.

#### **1.1.4 The History of the Bachelor Program in Public Health (SIKIA)**

A new mandate for Universitas Airlangga was given by the Directorate General of Higher Education of the Ministry of Education and Culture to improve the quality of Indonesian Human Resources. On March 21, 2014, a mandate letter from the Directorate General of Higher Education was issued to Universitas Airlangga to prepare the establishment of Study Programs outside the Domicile in Banyuwangi, namely letter number 276/E.E2/DT/2014 regarding Mandate for the Implementation of new Study Programs outside the Domicile, at Universitas Airlangga in Banyuwangi. On July 24, 2014, a Decree of the Minister of Education and Culture of the Republic of Indonesia was issued Number: 274/E/O/2014 concerning Permission to Implement Study Programs Outside Domicile (PDD) at Airlangga University in Banyuwangi, which contains giving permission to organize undergraduate study programs, one of which is Public Health. The establishment of Education Outside Domicile (PDD) Universitas Airlangga in Banyuwangi is one of the work programs between the Banyuwangi Regency government and the Ministry of Education and Culture which aims to expand access and quality of education in an effort to provide equitable access to education to meet the needs of qualified human resources in the Banyuwangi area. The name PDD changed to Study Program Outside the Main Campus (PSDKU) in 2017 based on the Regulation of the Minister of Research, Technology and Higher Education of the Republic of Indonesia Number 1 of 2017 on January 1, 2017. The name of PSDKU was then changed to School of Health and Life Sciences Universitas Airlangga based on the Decree of the Board of Trustees of Universitas Airlangga Number 6/UN3.MWA/K/2021 on December 29, 2021. The establishment of the School aims to organize and manage academic education in certain scientific fields in the field of health and natural sciences.

## **1.2 VISION, MISSIONS, AND OBJECTIVES**

### **1.2.1 Vision, Missions, and Objectives of the Faculty of Public Health**

#### **1. Vision**

The vision of the Faculty of Public Health is to become an independent, innovative, and outstanding pioneer and reference center for public health education institutions, excellent research, and community services that create significant impacts on the quality of human life at local, national, and international levels based on good-quality human resource and religious morality.

## **2. Missions**

The missions of the Faculty of Public Health are:

1. To implement accountable, innovative, and integrated information technology-based education management as part of the SMART University.
2. To organize modern learning technology and digitalization-based academic and professional education.
3. To conduct top-quality education based on 3L (data, technology, and human literacies), 6C (computational thinking, critical thinking, communication, collaboration, creativity, and compassion), evidence-based learning processes, and student-centered learning methods and concepts.
4. To conduct excellent research and publish it in national and international reputable scientific journals.
5. To perform research-based community services to solve local, national, and international community health problems to establish Sustainable Development Goals (SDGs).
6. To build networks and partnerships through Penta helix-based Global Mobility with alumni, academic institutions, industries, professionals, governments, and national and international organizations.

## **3. Objectives**

The objectives of the Faculty of Public Health are:

1. To generate academic and professional Public Health and Nutrition Program graduates who are innovative, proactive, professional, and highly adaptable to digitalization.
2. To produce research supporting health sciences and technology development conducted by the lecturers and students.
3. To apply Public Health and Nutrition science and technology in community service activities.
4. To manage effective, efficient, continuous, and competitive learning processes in a conducive academic atmosphere.
5. To conduct education that concerns labor market requirements and pays attention to access and equity.
6. To provide human resources adaptable to the accountable, innovative, and integrated digital-based public health science development and technology advancement.
7. To establish networks and partnerships through Penta helix-based Global

Mobility with alumni, academic institutions, industries, professionals, governments, and national and international organizations.

### **1.2.2 Vision, Missions, and Objectives of the Bachelor Program in Public Health**

#### **1. Vision**

The vision of the Bachelor Program in Public Health is to become a leading Bachelor Program in Public Health that produces innovative, proactive, and professional graduates in public health at local, national, and international levels with respect to religious morality.

#### **2. Missions**

The missions of the Bachelor Program in Public Health are:

1. To organize academic education based on modern learning technology.
2. To conduct top-quality education based on evidence-based learning processes.
3. To conduct public health research and community services at local, national, and international levels.
4. To implement education management based on RAISE plus (Relevancy, Academic Atmosphere, Internal Management and Organization, Sustainability, Efficiency, and Productivity) and Leadership, Access, and Equity.
5. To form networks and partnerships with industries, governments, and national and international organizations.

#### **3. Objectives**

1. Producing qualified graduates in the academic field of Public Health who are proactive, innovative and professional..
2. Produce graduates who are able to:
  - a. Implementing public health science with a promotive and preventive approach and skilled in leading and thinking in a system context with effective communication skills..
  - b. Managing health organizations and systems.
  - c. Analyzing policies in the health sector.
  - d. Conduct community empowerment and development of social support, networks, accessibility
  - e. To Assess health status based on data, information and health indicators for decision making.



- f. Conducting research in the field of public health.
3. Produce research that supports the development of science and technology by lecturers and students.
4. Implementing knowledge and technology in the field of Public Health Science in community service activities.
5. Carry out the learning process effectively, efficiently, sustainably and competitively in a conducive academic environment..
6. Implementing education that is sensitive to the needs of the labor market and pays attention to access and *equity*.
7. Provide resources that are able to keep up with the development of knowledge and technology in the field of public health.
8. The realization of partnerships with stakeholders that support each other both nationally and internationally..

### **1.2.3 Vision, Missions, and Objectives of the Bachelor Program in Nutrition**

#### **1. Vision**

The vision of the Bachelor Program in Nutrition is to become an excellent Bachelor Program in Nutrition that generates highly competitive human resources at national and international levels in nutrition.

#### **2. Missions**

The missions of the Bachelor Program in Nutrition are::

1. To organize and develop innovative, entrepreneurial-minded, and religious morality-based education, research, and community services.
2. To become the reference center for nutrition education in the eastern part of Indonesia.
3. To become the center of urban nutrition studies at regional, national, and international levels.
4. To increase the quality and quantity of human resources in nutrition science and technology development.
5. To build networks and partnerships in nutrition at the local, regional, national, and international levels.

#### **3. Objectives**

The objectives of the Bachelor Program in Nutrition are:

1. To produce innovative, proactive, and professional graduates in Nutrition.
2. To conduct nutrition research supporting health science and technology development conducted by the lecturers and students.

3. To apply nutrition science and technology in community service activities.
4. To manage effective, efficient, continuous, and competitive learning processes in a conducive academic atmosphere.
5. To provide human resources adaptable to the nutrition science development and technological advancement.
6. To establish partnerships with supportive stakeholders at national and international levels.

#### **1.2.4 Vision, Missions, and Objectives of the Bachelor Program in Public Health (SIKIA)**

##### **1. Vision**

As one of the study programs under the Faculty of Public Health, SIKIA UNAIR Banyuwangi has a vision and mission that supports the achievement of the vision and mission of the Faculty of Public Health. The vision of the S1 Public Health Study Program is "To become a leading S1 Public Health Study Program that produces graduates who are proactive, innovative and professional in the field of public health that has an impact at the local, national and international levels, based on religious morals."

##### **2. Missions**

The mission of the Bachelor Program in Public Health (SIKIA) are:

1. Organizing academic education based on modern learning technology based on religious morals.
2. Implementing quality education based on evidence based learning process, student centered learning, problem based learning, and the concept of 3L (data literacy, technology literacy, human literacy) and 6C (computational thinking, critical thinking, communication, collaboration, creativity, compassion).
3. Carry out research and publish it in scientific journals both at local and national levels.
4. Carry out research-based community service programs in the field of public health to help solve public health problems at the local, regional and national levels in order to support the achievement of SDG's (Sustainable Development Goals).
5. Build partnerships and networks with alumni, industry, academic institutions, government and professional organizations at local, regional and national levels.

##### **4. Objectives**

The objectives of the Bachelor Program in Public Health (SIKIA) are :

1. Producing qualified graduates in the academic field of Public Health who are able to contribute actively in problem solving public health issues.

2. Producing qualified graduates in the academic field of Public Health who are able to produce innovative ideas and implement them professionally in their fields..
3. Producing graduates who are able to:
  - a. Apply public health science with a promotive and preventive approach and skillfully lead and think in a system context with effective communication skills.
  - b. Managing health organizations and systems.
  - c. Carry out policy analysis in the health sector.
  - d. Conduct community empowerment and development of social support, networks, accessibility.
  - e. Assess health status based on data, information and health indicators for decision making.
  - f. Conducting research in the field of public health.
4. Carry out the learning process effectively, efficiently, sustainably and competitively in a conducive academic environment..
5. Implementing education that is sensitive to the needs of the labor market and pays attention to access and *equity*.
6. Providing resources that are able to keep up with the development of knowledge and technology in the field of public health.
7. Produce research that supports the development of science and technology by lecturers and students.
8. Disseminating research results in the form of publications in scientific journals at local, national, and international levels.
9. Applying research results in the form of community service at the local, regional, national and international levels in order to support the achievement of SDG's (Sustainable Development Goals).
10. Establishing cooperation and partnerships with alumni, industry, academic institutions, government and professional organizations at local, regional, national and international levels.

### **1.3 EDUCATION FACILITIES**

1. Lecture and practice venues are held at the Faculty of Public Health Universitas Airlangga, other faculties, hospitals, and other learning facilities within Universitas Airlangga as needed..
2. The Universitas Airlangga Library (on campuses A, B and C) and the FKM Reference Collection serve as support for the teaching and learning process. In addition, students are encouraged to use other libraries with supporting collections, and institutional libraries related to public health..
3. AVA laboratory, health and safety laboratory, health nutrition laboratory, organoleptic laboratory, food processing laboratory, anthropometry laboratory, food biochemistry laboratory, epidemiology laboratory, computer laboratory.
4. Regional Field Work Practice (PKL) is a compulsory activity that must be followed by every Public Health undergraduate student, with the aim of

recognizing health problems in the community and institutions, and applying theoretical knowledge to solve problems.

#### 1.4 STUDENT ACTIVITIES

Intra-Campus Student Organization is a form of student organization.:

**a. Badan Eksekutif Mahasiswa (BEM)**

Is an intra-campus student organization that is an executive body at the university or faculty level. BEM FKM has several departments and Himaprodi that support the implementation of the program.

**b. Badan Legislatif Mahasiswa (BLM)**

Is a representative body of all students with a set of duties and authorities. Broadly speaking, BLM carries out its legislative function as a supervisor and controller of the activities of the executive. BLM is also tasked with advocating student aspirations to the faculty in order to achieve continuity in the learning process.

**c. Himpunan Mahasiswa Program Studi (Himaprodi)**

Is a student organization at the Study Program level. Himaprodi is important to gather the potential of students in the study program, capture the aspirations of students in the study program, and of Subject increase the creativity of students who are scattered in their study program.

**1) Extra-Curricular Activities**

1. Reasoning, including forms of activity: Scientific Research Training; Panel Discussion; Interactive Discussion; Student Writing Competition (LKTM); Student Management Skills Training (LKMM); Student Creativity Program (PKM); Poster Competition for students; Journalism Training; Mawapres Main Achievement Student, Public Health Competition for high school students throughout Indonesia; TOEFL Preparation and Test, Seminar and others.
2. Majors and Talents, with activities: Sports (Volleyball, Basketball, Futsal, and Arts (Choir, Modern Dance and Traditional Dance); Dean Cup; Art Performance.
3. Community Service, with the form of activities: Community Development which contains health counseling and training activities for the community around the campus, Gerebek Kampung, which is a health counseling activity that is carried out regularly on a full day.
4. Spirituality, including activities: Grand Recitation, Ramadhan Mubarak Package, Christmas Celebration, etc.
5. External Relations, with activities: ISMKMI Rakernas, ILMAGI National Conference, Indonesian Health Student Network (JMKI), Monthly Discussion.

6. Entrepreneurship, with the form: Entrepreneurship training and practice by organizing bazaars and exchanges.

**2) Services and facilities for student activities/welfare at the faculty/university level**

1. Sports facilities
2. Food court/canteen
3. Musholla Nurul Afficah
4. Ulul Azmi and Nuruz Zaman Mosques
5. Health Service Center
6. Student Center
7. Student Dormitory
8. Inter-campus bus transportation
9. Help Center
10. Shared Lecture Hall
11. Campus Library A, B, C

**3) Educational support facilities in the faculty**

1. Universitas Airlangga Cyber Campus (UACC)
2. Reference Collection managed by Reading Room
3. Health Study Unit
4. Self Access Learning Room
5. Wifi (internet)
6. GREAT e-learning
7. Lactation Corner

# CHAPTER II

## ORGANIZATIONAL STRUCTURE

### 2.1 ORGANIZATIONAL STRUCTURE OF FACULTY OF PUBLIC HEALTH, UNIVERSITAS AIRLANGGA

**Struktur Organisasi Fakultas Kesehatan Masyarakat Universitas Airlangga**

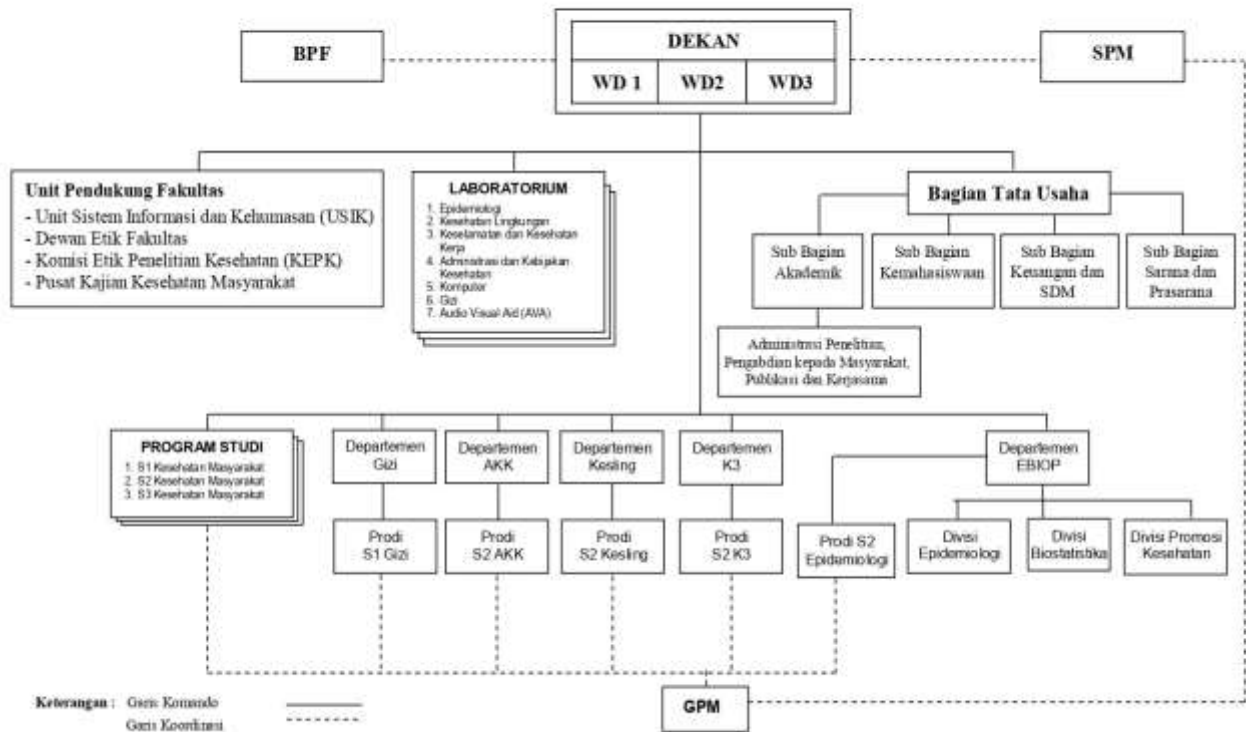


Figure 2.0.1 Organizational Structure of Faculty of Public Health Universitas Airlangga

**Keterangan :**

Line of Command \_\_\_\_\_  
 Coordination Line - - - - -

- Division I : Academic and Student Affairs
- Division II : Human Resources and Finance
- Division III : Information System, Cooperation and Development

The organizational structure of the Faculty of Public Health Universitas Airlangga consists of:

1. Faculty Leaders:
  - a. Dean
  - b. Vice Dean I Academic and Student Affairs
  - c. Vice Dean II Human Resources and Finance
  - d. Vice Dean III Information System, Alumni and Cooperation
2. Education Personnel:
  - a. Academic Division
    - Academic Subdivision
    - Student Affairs Subdivision
  - b. Resource Division
    - Finance and Human Resources Subdivision
    - Facilities and Infrastructure Subdivision
3. Information System and Public Relations Unit (USIK)
4. Faculty Support Unit:
  - a. Health Study Unit (UKAKES)
  - b. Quality Assurance Unit
  - c. Curriculum Team
  - d. Self Evaluation Team
  - e. MBKM Conversion Team
5. Academic Executor:
  - a. Department of Epidemiology, Biostatistics and Health Promotion
    - 1) Epidemiology Division
    - 2) Biostatistics and Population Division
    - 3) Health Promotion and Behavioral Science Division
  - b. Environmental Health Department
  - c. Department of Occupational Safety and Health
  - d. Department of Health Administration and Policy
  - e. Department of Nutrition
6. Supporting Elements:
  - a. Epidemiology Laboratory
  - b. Environmental Health Laboratory
  - c. Occupational Safety and Health Laboratory
  - d. Computer Laboratory
  - e. Nutrition Laboratory (Anthropometry, Biochemistry, Organoleptic, Food Processing)
  - f. Educational Aids/AVA Laboratory
  - g. Information Services - Referral Collection

7. Study Programs at Faculty of Public Health Universitas Airlangga:
  - a. Bachelor Programs (S1)
    - 1) Public Health Study Program Surabaya
    - 2) Nutrition Study Program
    - 3) Public Health Study Program SIKIA UNAIR Banyuwangi
  - b. Master Programs (S2)
    - 1) Public Health Study Program
    - 2) Health Administration and Policy Study Program
    - 3) Occupational Health and Safety Study Program
    - 4) Environmental Health Study Program
    - 5) Epidemiology Study Program
  - c. Doctoral Program (S3)
    - 1) Public Health Study Program



## **CHAPTER III**

### **GRADUATE COMPETENCIES**

#### **3.1 GRADUATES COMPETENCIES OF THE BACHELOR PROGRAM OF PUBLIC HEALTH**

The graduate competencies to be achieved are as follows:

##### **3.1.1 Key Competencies and Learning Outcomes**

Undergraduate Education of Public Health Study Program Faculty of Public Health at Universitas Airlangga is directed to produce graduates who have the following qualifications:

1. Able to conduct studies and analyze situations (analytic/assessment skills)
  - a. Define the problem precisely
  - b. Determine the usefulness and limitations of data
  - c. Identify appropriate and relevant data as sources of information
  - d. Evaluate data integrity and comparability
  - e. Use ethical principles in collecting data and information
  - f. Make relevant inferences from quantitative and qualitative data
  - g. Retrieve and interpret data and information related to risk and return
  - h. Apply data collection processes and information technology applications
  
2. Developing and designing health policies and programs (policy development/program planning skills)
  - a. Collect, summarize and interpret information on various health issues
  - b. State policy options and formulate them clearly and concisely
  - c. Discuss health, fiscal, administrative, legal, social and political implications
  - d. State the feasibility and expected outcomes of each policy option
  - e. Use the latest techniques in health determination and planning analysis
  - f. Decide on a Subject of action appropriate to the problem at hand
  - g. Develop a plan to implement the policy
  - h. Turn policies into organizational plans, structures, and programs
  
3. Communicate effectively (communication skills)
  - a. Communicate through written, verbal, or other methods
  - b. Solicit input from individuals and organizations
  - c. Advocate for health programs and resources
  - d. Lead and participate in groups to formulate specific health issues
  - e. Use media, technology, and networks to disseminate information
  - f. Decide on appropriate communication actions

- g. Present accurate demographic, statistical, programmatic, and scientific information to the professional community
4. Understanding local culture (cultural competency skills)
    - a. Use appropriate methods to interact sensitively, effectively and professionally with people from different cultural backgrounds.
    - b. Develop and adapt approaches to address public health issues related to cultural differences.
    - c. Understand the dynamics that contribute to cultural diversity (attitude)
    - d. Understand the importance of diverse public health workers (attitude)
  5. Able to implement community empowerment (community empowerment)
    - a. Incorporate different strategies to interact with people from different backgrounds
    - b. Identify the role of cultural, social and behavioral factors in health care delivery
    - c. Respond to different needs as a consequence of cultural diversity
    - d. Be able to identify and maintain relationships with various stakeholders
    - e. Use a group dynamics process to increase community participation
    - f. Describe the role of government in providing public health services
    - g. Describe the role of the private sector in providing public health services
    - h. Identify the potential and resources available in the community
    - i. Gathering input from the community for consideration in the development of health policies and programs
    - j. Inform the community about program policies and resources
  6. Have mastery of public health science skills (public health science skills)
    - a. Identify individual and organizational obligations in the context of essential public health services and basic functions
    - b. Define, assess, and understand health status in populations, determinants of health and disease, and factors contributing to health promotion and disease prevention
    - c. Understand the historical development, structure, and interaction between public health and health care systems
    - d. Identify and apply basic research methods used in public health
    - e. Use group dynamics processes to enhance community participation
    - f. Apply the science of public health, including social and behavioral sciences, chronic diseases, infections, and accidents
    - g. Identify the limitations of research and the importance of observation and interrelationships.
    - h. Develop a lifelong commitment to learning and develop strong critical thinking (attitude)

7. Proficient in financial planning and skilled in management (financial planning and management skills)
  - a. Develop and present a budget
  - b. Manage programs according to financial conditions
  - c. Implement the budgeting process
  - d. Develop strategies to determine budget priorities
  - e. Monitor program performance
  - f. Prepare proposals to obtain funding from external sources
  - g. Apply basic human relations skills in organizational management, staff motivation, and conflict resolution
  - h. Negotiate and develop contracts and other documents for community-based service delivery
  
8. Leadership and systems thinking skills
  - a. Create a culture based on ethical standards within the organization and community
  - b. Helping to create core values and a shared vision and using these principles to guide the implementation of public health programs.
  - c. Identify internal and external issues that may impact the delivery of essential public health services (develop a Strategic Plan)
  - d. Facilitate internal and external group collaboration to ensure participation of key stakeholders
  - e. Contribute to the development, implementation, and monitoring of organizational performance standards
  - f. Use legal and political systems to effect change
  - g. Apply theories of organizational structure to professional practice

### **3.2 GRADUATES COMPETENCIES OF THE BACHELOR PROGRAM OF NUTRITION SCIENCE**

The competencies of S1 Nutrition graduates consist of 5 main aspects, these competencies are as follows:

1. Able to make the right decisions on nutritional status assessment and food security of individuals, groups and communities (nutritional assessment skills) (**decision maker profile**)
  - 1) Able to assess nutritional status using anthropometric and dietetic methods
  - 2) Able to assess nutritional status using biochemical and clinical methods
  - 3) Able to assess food security at the individual, household and regional levels

2. Able to carry out nutritional services and interventions for individuals, groups and communities through cross-sector, cross-disciplinary and inter-professional cooperation to solve nutritional problems (nutrition intervention and food services skills) (**profile manager, care provider**).
  - 1) Able to compile a balanced diet for healthy living according to the needs of age groups and physiological conditions that exist in the life cycle
  - 2) Able to design food formulations for overcoming (intervention) food and nutrition problems
  - 3) Able to plan and prepare diets for conditions of infectious diseases and deficiencies
  - 4) Able to plan and prepare diets for degenerative disease conditions
  - 5) Able to conduct nutrition education using media and methods according to target characteristics
  - 6) Able to design food and nutrition service industries and be able to manage human resources, physical facilities in food production in accordance with nutritional guidelines, costs and client acceptance.
  - 7) Able to provide dietetic consultation related to health problems and / or nutritional needs of urban communities
  - 8) Able to apply knowledge and skills in the field of food and nutrition in entrepreneurial activities
  
3. Able to carry out research and update themselves in the development of science and technology in the field of nutrition (research and appraisal skills) (**researcher profile**).
  - 1) Able to carry out research independently and compile a Undergraduate Thesis in accordance with the rules of scientific writing.
  - 2) Able to demonstrate nutritional analysis according to proper procedures.
  - 3) Able to demonstrate HACCP completely and correctly in food and nutrition services.
  - 4) Able to think with the correct scientific foundation
  - 5) Able to examine bioethical issues that are in accordance with developments
  - 6) Able to use statistical and nutrition software in analyzing data according to procedures
  - 7) Able to present research results on nutrition materials and cases using English
  - 8) Able to present scientific work obtained from field results in written form in scientific journals both at national and international levels

4. Able to carry out advocacy activities in handling nutrition problems (advocacy skills)  
**(communicator profile)**
  - 1) Able to evaluate nutrition programs related to major nutrition problems in
  - 2) Indonesia (Protein Energy Deficiency, Iodine Deficiency Disorders, anemia, and Vitamin A Deficiency)
  - 3) Able to link economic and nutritional factors in nutrition improvement programs and able to calculate the cost effectiveness of nutrition projects/programs.
  - 4) Able to communicate effectively about nutrition materials and cases in various communication media
5. Able to be responsible for the results of independent or group work in working in the field of nutrition and being critical and empathetic to clients and work teams at the internal and external levels of the organization **(community leader profile)**
  - 1) Able to report accurate assessment of nutrition problems in the form of reports or working papers
  - 2) Able to collaborate with fellow health professionals in providing integrated nutrition services to the community

# **CHAPTER IV CURRICULUM**

## **4.1 EDUCATION SYSTEM OF THE FACULTY OF PUBLIC HEALTH, UNIVERSITAS AIRLANGGA**

### **4.1.1 Definition**

#### **1. Definition of Bachelor of Public Health (S.KM.)**

- a. Students who have completed the Bachelor of Public Health Study Program, with a study load of 146 semester credits for students who come from high school graduates.
- b. Bachelor of Public Health is a health program manager who is directed to solve public health problems with a multi-disciplinary approach.
- c. Bachelor of Public Health can take further higher education both in the Professional Education Program and the Masters Education Program to obtain a higher level of expertise and ability..

#### **2. Definition of Bachelor of Nutrition (S.Gz.)**

- a. Students who have completed the Bachelor of Nutrition Education Program, with a study load of 146 semester credits.
- b. Bachelor of Nutrition can pursue further higher education in both the Professional Education Program and the Masters Education Program to obtain a higher level of expertise and ability.

### **4.1.2 Education Objectives**

#### **1. Educational objectives in the Bachelor of Public Health Study Program**

- 1) Graduates in the academic and professional fields of Public Health Science who are proactive, innovative and professional.
- 2) Producing research that supports the development of Health Science and Technology by lecturers and students.
- 3) Produce research that supports the development of Health Science and Technology by lecturers and students.
- 4) Applying knowledge and technology in the field of Public Health Science in service activities to the community.
- 5) Carry out the learning process effectively, efficiently, sustainably and competitively in a conducive academic atmosphere.
- 6) Carry out education that is sensitive to labor market needs and pays attention to access and equity.
- 7) Providing resources that are able to keep up with the development of knowledge

and technology in the field of public health.

- 8) The realization of partnerships with stakeholders that support each other both nationally and internationally.

## **2. Educational objectives in the Bachelor of Nutrition Study Program**

The educational objectives of the Bachelor of Nutrition Study Program to be achieved are:

- 1) Producing proactive, innovative and professional Bachelor of Nutrition graduates.
- 2) Producing research in the field of nutrition that supports the development of health science and technology by lecturers and students.
- 3) Applying knowledge and technology in the field of nutrition in community service activities.
- 4) Carry out the learning process effectively, efficiently, sustainably and competitively in a conducive academic atmosphere.
- 5) Providing resources that are able to keep up with the development of knowledge and technology in the field of nutrition.
- 6) The realization of partnerships with stakeholders that support each other both at national and international levels.

### **4.1.3 Guidelines for the Education Implementation Faculty of Public Health**

The organization of activities to achieve the objectives as referred to in the educational objectives, guided by:

1. National education goals
2. Rules, morals and ethics of science
3. The Majors of society, taking into account personal Majors, abilities and initiatives

## **4.2 EDUCATION PROGRAM STRUCTURE**

### **Educational program structure of the Faculty of Public Health**

1. Law on the National Education System No. 20 of 2003 (State Gazette No. 78 of 2003), dated July 8, 2003
2. Law on the Higher Education No. 12 of 2012 (State Gazette No. 158 of 2012), dated August 10, 2012
3. Government Regulation of Higher Education No. 60 of 1999 (State Gazette No. 115 of 1999), dated June 24, 1999
4. Decree of the Minister of Education and Culture No. 0372/O/1993 and The Revision No. 70539/A6.1/U/1993 on The Opening of the Faculty of Public Health and the Faculty of Psychology Universitas Airlangga, in relation with the Decree of the Minister of

Education No. 0192/O/1995, and further to be regulated by the Decree of the Minister of Education No. 0276/O/1996, dated September 12, 1996, on the Organization and the Work Procedures of Universitas Airlangga

5. Decree of the Minister of Education No. 232/U/2000, dated December 20, 2000, on the Guidelines for Higher Education Curriculum Development and Learning Outcomes Assessment
6. The Education Guidelines of Universitas Airlangga

### **4.3 GENERAL PROVISIONS OF THE EDUCATION PROCESS**

#### **4.3.1 Academic Administration**

##### **1. Academic Administration in the Bachelor of Public Health Study Program**

- a. Provisions on the teaching and learning process
  - 1) Learning methods at the Faculty of Public Health include:
    1. Lecture and Practicum
    2. Field Work Practices (PKL)
    3. Community Service Program (KKN)/Study with the Community (BBM)
    4. Internship
    5. Undergraduate Undergraduate Thesis Writing
  - 2) Academic activities are arranged with a package system from semesters I-V as many as 116 credits that must be followed by students in accordance with lecture units each semester and 30 credits with a specialization system in semesters VI-VIII. Students are also allowed to take Cross Specialization Subjects. Classes for Cross Specialization Subjects will be opened with a minimum of 10 students and a maximum of 50 students. And still will be opened only one class.
  - 3) Bachelor of Public Health Study Program has 8 specializations, namely:
    1. Health Administration and Policy
    2. Biostatistics and Population.
    3. Epidemiology.
    4. Community Nutrition
    5. Environmental Health
    6. Occupational Safety and Health
    7. Reproductive Health and Maternal Child Health (MCH)
    8. Health Promotion and Behavioral ScienceSpecialization selection is based on GPA from semester I-V. Specialization selection is carried out at the end of the fifth semester. The quota for each specialization is based on the ratio of the number of supervisors in each Major..



b. Academic guidance

Academic guidance activities are carried out through:

- 1) Introduction to Academic and Student Activities for New Students. After students are registered at the University, students receive an explanation of the implementation of the education system from the Dean of the Faculty of Public Health / Vice Dean I for Academic and Student Affairs.
- 2) Guardian lecturers who provide guidance in the academic field, especially in compiling Subjects programmed by students in the Study Plan Card online through cybercampus. In addition, they also provide guidance for students who experience study obstacles.

2. **Academic Administration in the Bachelor of Nutrition Study Program**

a. Provisions on the teaching and learning process

- 1) Learning methods in the Bachelor of Nutrition Study Program, Faculty of Public Health, include:
  1. Lectures, Practicums, and Tutorials
  2. Community Service Program (KKN)/Study with the Community
  3. Field Work Practices (PKL) include PKL in Food Service Industry Management, PKL in Dietetics, and PKL in Community Nutrition.
  4. Entrepreneurship Practicum in Food and Nutrition
  5. Undergraduate Undergraduate Thesis Writing
- 2) Academic activities are arranged with a package system from semester I-VIII with a study load of 146 credits which must be followed by students in accordance with the lecture unit for each semester.

b. Academic guidance

Academic guidance activities are carried out through:

- 1) Introduction to Academic and Student Activities for New Students Through the PPKMB Program After students are registered at the University, students receive an explanation of the implementation of the education system from the Dean of the Faculty of Public Health / Vice Dean I for Academic and Student Affairs.
- 2) Guardian lecturers who provide guidance in the academic field, especially in compiling Subjects programmed by students in the Study Plan Card on line which is done before lectures. In addition, it also provides guidance for students who experience study obstacles. The guardianship process is carried out at least 3 (three) times per semester.

### 4.3.2 Education Time Limit

- a. The educational time limit (Regular) is set as follows: Semester I - VIII must have been completed no later than 14 semesters (outside the leave period) starting from being accepted as a new student.
- b. Academic leave is an activity of leaving academic activities by students with the knowledge of the Dean c.q. Vice Dean I with valid approval from the Rector of Universitas Airlangga. Leave is only given to students who have studied at least 4 consecutive semesters. Academic leave is a maximum of 2 non-consecutive semesters during education. During academic leave, students continue to pay tuition fees and academic leave is not counted as a study period. Students whose leave exceeds the permitted academic leave time are declared a failure of study.
- c. The study period is not taken into account if the student has been legally authorized by the Rector for a certain period of time not to participate in academic activities. Students are declared to have to abandon their studies at the Faculty of Public Health Universitas Airlangga if they cannot complete their education within the specified time limit. The decision to terminate the study is determined by the Rector's Decree on the proposal of the Dean of the Faculty of Public Health.

## 4.4 EDUCATION PROGRAM SUBJECTS

### 4.4.1 Undergraduate Public Health Study Program Subjects

#### Required Subjects

1. University Subject	: 20 credits
2. Study Program Subject	: 96 credits
	.
Total	: 116 credits

#### Specialization Subjects

3. Compulsory Major Subjects	: 28 credits
4. Cross-Linked Subjects	: 2 credits
	.
Total	: 30 credits

The number of credits in the Bachelor of Public Health curriculum is 146 credits consisting of 104 credits of compulsory Subjects and 42 credits of specialization Subjects.

### Curriculum structure of Bachelor of Public Health Study Program

The curriculum structure of the S1 Public Health Study Program, Faculty of Public Health, Universitas Airlangga is arranged per semester with sequential Subject numbers, from semester 1 to semester 8 which will later be used as a number in the Subject description at the point of curriculum content. Table 4.1 below is the arrangement of Subjects in the Bachelor of Public Health Study Program:

Table 4.1 Subject Structure of S1 Public Health Study Program

No	Subject Content		Element Category (a,b,c,d)	Study Load on Activities		
	Code	Name		Subjects	Practicum	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<b>SEMESTER 1</b>						
1	AGB101	Buddhism I	a	2		2
	AGC101	Confucianism I				
	AGH101	Hinduism I				
	AGI101	Islam I				
	AGK101	Catholicism I				
	AGP101	Protestantism I				
2	BAI101	Indonesian	a	2		2
3	BIF113	Biomedical Sciences I	b	3		3
4	ETM101	Health Law and Ethics	b,c	2		2
5	NOP103	Pancasila	a	2		2
6	KMU101	Introduction to Public Health Sciences	b	2		2
7	NOP104	Civics	a	2		2
8	SIP107	Data and Literature	a	2		2
9	KMU103	Health Communication and Basic Health Services	c	2		2

No	Subject Content		Element Category (a,b,c,d)	Study Load on Activities		
	Code	Name		Subjects	Practicum	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<b>Subtotal credits for Semester 1</b>				<b>19</b>		<b>19</b>
<b>SEMESTER 2</b>						
10	KME201	Principles of Epidemiology	b	2		2
11	KMA101	Health Administration and Policy	a, b,c	2		2
12	KMD104	Population Studies	b,c	2		2
13	BIF114	Biomedical Sciences II	b	3		3
14	EDM305	Health Promotion and Education	b	2		2
15	SOS320	Medical Sociology and Anthropology	b	3		3
16	PHP103	Logical and Critical Thinking	a	2		2
17	KMU103	Communication and Self-Development	a	2		2
18	MNM107	Introduction to Scientific Collaboration	d	2		2
<b>Subtotal credits for Semester 2</b>				<b>20</b>		<b>20</b>
<b>SEMESTER 3</b>						
19	MAS111	Principles of Biostatistics	b,c	2		2
20	KME302	Epidemiology of Communicable Diseases	b	2		2
21	SOK207	Public Health	b, d	3		3

No	Subject Content		Element Category (a,b,c,d)	Study Load on Activities		
	Code	Name		Subjects	Practicum	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
		Communication				
22	KMA205	Principles of Hospital and Community Health Center Administration	b,c	2		2
23	PSK204	Public Health Group Development	b	2		2
24	LKM206	Principles of Environmental Health	b,c	2		2
25	KMK217	Principles of Occupational Health and Safety	a,b	2		2
26	KMD105	Community Reproductive Health	b,c	2		2
27	NUM101	Principles of Nutrition Science	b	2		2
28	AGB401	Buddhism II	a,b	2		2
	AGC401	Confucianism II				
	AGH401	Hinduism II				
	AGI401	Islam II				
	AGK401	Catholicism II				
	AGP401	Protestantism II				
<b>Subtotal credits for semester 3</b>				<b>21</b>		<b>21</b>
<b>SEMESTER 4</b>						
29	PSK205	Community Empowerment in Health I	b	2		2

No	Subject Content		Element Category (a,b,c,d)	Study Load on Activities		
	Code	Name		Subjects	Practicum	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
30	SII310	Health Information Systems (HIS)	b,c	2		2
31	KME204	Public Health Surveillance (Integrated)	b	3		3
32	MNM404	Human Resource Management and Productivity in Healthcare	b	2		2
33	KME303	Epidemiology of Non-Communicable Diseases	b	2		2
34	MNM309	Leadership and Thinking Systems in Public Health	a, b,c	2		2
35	LKM316	Environmental Quality Analysis	b,c	2		2
36	MAS233	Inferential Biostatistics	b,c	2		2
37	MNW302	Integrated Entrepreneurship	a, b,c	2		2
38	NUM301	Introduction to Public Health Nutrition	b	2		2
<b>Subtotal credits for semester 4</b>				<b>21</b>	<b>0</b>	<b>21</b>
<b>SEMESTER 5</b>						
39	PNM405	Methodology of Quantitative and Qualitative Research	b	3		3
40	SOK326	Basics in Media Communication, Information, and Education	b	2		2

No	Subject Content		Element Category (a,b,c,d)	Study Load on Activities		
	Code	Name		Subjects	Practicum	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
41	EKH301	Health Economics	b	3		3
42	KME419	Extreme Events and Disaster Management (Integrated)	b,c	2		2
43	KLM303	Fieldwork	a, b	6		6
44	MNS103	Public Health Program Planning and Evaluation (Integrated) (Practicum)	a, b,c		3	3
45	SIK302	Public Health Computer Applications (Practicum)	b,c		2	2
46	BAE115	English for Public Health	b	2		2
<b>Subtotal credits for semester 5</b>				<b>18</b>	<b>5</b>	<b>23</b>
<b>SEMESTER 6</b>						
<b>1. Major in Health Administration and Policy</b>						
<b>COMPULSORY SUBJECTS</b>						
47	KNM401	Community Services	a, b	3		3
48	MNK103	Health Financing and Budgeting	b	2		2
49	PSO306	Organization Development	b,c	2		2
50	MNS315	Healthcare Management Techniques and Tools	b	4		4
51	MNS316	Community Health Center Management	a, b,c	2		2

No	Subject Content		Element Category (a,b,c,d)	Study Load on Activities		
	Code	Name		Subjects	Practicum	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
52	MNS317	Hospital Management	a, b,c	2		2
53	MNS310	Quality Management in Health Services	b,c	2		2
54	MNS311	Logistic Management for Medicine, Equipment, and Healthcare Facility	b,c	2		2
<b>Subtotal credits for the Major in Health Administration and Policy</b>				<b>19</b>		<b>19</b>
<b>2. Major in Biostatistics and Population Studies</b>						
<b>COMPULSORY SUBJECTS</b>						
47	KNM401	Community Services	a, b	3		3
48	MNK103	Health Financing and Budgeting	b	2		2
55	MAS208	Parametric Biostatistics	b,c	3		3
56	MAS322	Biostatistics for Semiquantitative Data	b,c	2		2
57	MAS323	Biostatistics for Categorical Data	b,c	2		2
58	PNM406	Health Research Design	b,c	2		2
59	KMD312	Demographic Techniques	b,c	2		2
60	KMD305	Maternal Health and Safety	b,c	2		2
61	KMD306	Population Fertility and Family Planning	b,c	2		2



No	Subject Content		Element Category (a,b,c,d)	Study Load on Activities		
	Code	Name		Subjects	Practicum	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<b>Subtotal credits for the Major in Biostatistics and Population Studies</b>				<b>20</b>		<b>20</b>
<b>3. Major in Reproductive Health and Maternal and Child Health</b>						
<b>COMPULSORY SUBJECTS</b>						
47	KNM401	Community Services	a, b	3		3
48	MNK103	Health Financing and Budgeting	b	2		2
62	KMD303	Child Survival	b,c	2		2
63	KMD304	Adolescent Sexual and Reproductive Health	b,c	2		2
60	KMD305	Maternal Health and Safety	b,c	2		2
64	KMD306	Population Fertility and Family Planning	b,c	2		2
65	KMD307	Mortality	b,c	2		2
66	KMD313	Workers Sexual and Reproductive Health	b,c	2		2
67	KMD314	Elderly Sexual and Reproductive Health	b,c	2		2
<b>Subtotal credits for the Major in Reproductive Health and Maternal and Child Health</b>				<b>19</b>		<b>19</b>
<b>4. Major in Epidemiology</b>						
<b>COMPULSORY SUBJECTS</b>						
47	KNM401	Community Services	a, b	3		3

No	Subject Content		Element Category (a,b,c,d)	Study Load on Activities		
	Code	Name		Subjects	Practicum	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
48	MNK103	Health Financing and Budgeting	b	2		2
68	KME422	Health Measurement	b,c	2		2
69	KME426	Epidemiology of Prevention and Control of Cardiovascular Diseases and Strokes	b	3		3
70	KME417	Epidemiological Research	a	2		2
71	KME407	Epidemiology of Tropical Diseases	b,c	3		3
72	KME420	Epidemiology of Accidents	b,c	2		2
73	KME403	Epidemiology of Cancers	b	3		3
<b>Subtotal credits for the Major in Epidemiology</b>				<b>20</b>		<b>20</b>
<b>5. Major in Health Nutrition</b>						
<b>COMPULSORY SUBJECTS</b>						
47	KNM401	Community Services	a, b	3		3
48	MNK103	Health Financing and Budgeting	b	2		2
74	NUM404	Nutrition (Practicum)	b,c		2	2
75	NUM304	Food Technology and Nutrition	b,c	2		2
76	EDM401	Nutrition Education	b,c	3		3
77	KME405	Epidemiology of Nutrition	b,c	2		2

No	Subject Content		Element Category (a,b,c,d)	Study Load on Activities		
	Code	Name		Subjects	Practicum	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
78	NUM318	Urban Nutrition	b,c	2		2
79	NUM401	Food Safety	b,c	2		2
<b>Subtotal credits for the Major in Health Nutrition</b>				<b>16</b>	<b>2</b>	<b>18</b>
<b>6. Major in Occupational Health and Safety</b>						
<b>COMPULSORY SUBJECTS</b>						
47	KNM401	Community Services	a, b	3		3
48	MNK103	Health Financing and Budgeting	b	2		2
80	KMK102	Occupational Safety	b,c	2		2
81	KMK301	Occupational Health	b,c	2		2
82	KMK214	Ergonomics and Work Physiology I	b,c ,d	2		2
83	PSI307	Industrial Psychology	b,c	2		2
84	KMK106	Industrial Hygiene I	b,c ,d	2		2
85	FAT304	Industrial Toxicology I	b,c ,d	2		2
<b>Subtotal credits for the Major in Occupational Health and Safety</b>				<b>17</b>		<b>17</b>
<b>7. Major in Environmental Health</b>						
<b>COMPULSORY SUBJECTS</b>						
47	KNM401	Community Services	a, b	3		3

No	Subject Content		Element Category (a,b,c,d)	Study Load on Activities		
	Code	Name		Subjects	Practicum	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
48	MNK103	Health Financing and Budgeting	b	2		2
86	NUM102	Food Sanitation	b,c	2		2
87	LKM406	Control of Zoonotic Diseases	b,c,d	2		2
88	LKM314	Field Instrumentation and Observation (Practicum)	b,c		3	3
89	LKM313	Water Management	b,c,d	2		2
90	LKM312	Waste Management	b,c,d	2		2
91	LKM309	Vector and Rodent Control	b,c,d	2		2
<b>Subtotal credits for the Major in Environmental Health</b>				<b>15</b>	<b>3</b>	<b>18</b>
<b>8. Major in Health Promotion and Behavioral Science</b>						
<b>COMPULSORY SUBJECTS</b>						
47	KNM401	Community Services	a,b	3		3
48	MNK103	Health Financing and Budgeting	b	2		2
92	MNS312	Health Promotion Indicators and Measurements	b	2		2
93	SOK325	Health Promotion Media Development	b	3		3

No	Subject Content		Element Category (a,b,c,d)	Study Load on Activities		
	Code	Name		Subjects	Practicum	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
94	PSC304	Health Psychology	b	2		2
95	EDM306	Health Promotion in Institutions (Practicum)	b		3	3
96	MNS313	Health Promotion Programs	b	3		3
<b>Subtotal credits for the Major in Health Promotion and Behavioral Science</b>				<b>15</b>	<b>b</b>	<b>18</b>
<b>SEMESTER 7</b>						
<b>1. Major in Health Administration and Policy</b>						
<b>COMPULSORY SUBJECTS</b>						
97	PNM496	Research Methodology (Application and Practicum)	b,c,d		3	3
98	MNP309	Health Services Marketing	b	2		2
99	MNS407	Health Insurance	b,c,d	2		2
100	SII407	Health and Hospital Management Information System	b	2		2
101	KMA404	Health Policy Analysis	b,c	3		3
102	MNS408	Strategic Management in Healthcare	a,b,c	2		2
<b>Subtotal credits</b>				<b>11</b>	<b>3</b>	<b>14</b>
<b>ELECTIVES</b>						
		Major Elective Subject (Cross-Discipline)		2		2

No	Subject Content		Element Category (a,b,c,d)	Study Load on Activities		
	Code	Name		Subjects	Practicum	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<b>Subtotal credits for the Major in Health Administration and Policy</b>				<b>13</b>	<b>3</b>	<b>16</b>
<b>2. Major in Biostatistics and Population Studies</b>						
<b>COMPULSORY SUBJECTS</b>						
97	PNM496	Research Methodology (Application and Practicum)	b,c,d		3	3
103	SIK304	Biostatistics Computer Applications (Practicum)	b,c		2	2
104	SIK303	Population Analysis Computer Applications (Practicum)	b,c		2	2
105	PNM407	Sampling Techniques and Size Determination	b,c	2		2
106	SII314	Introduction to Geographic Information Systems	b,c	2		2
107	MAS3363	Basics in Multivariate Analysis	b,c	2		2
<b>Subtotal credits</b>				<b>6</b>	<b>7</b>	<b>13</b>
<b>ELECTIVES</b>						
		Major Elective Subject (Cross-Discipline)		2		2
<b>Subtotal credits for the Major in Biostatistics and Population Studies</b>				<b>8</b>	<b>7</b>	<b>15</b>
<b>3. Major in Reproductive Health and Maternal and Child Health</b>						
<b>COMPULSORY SUBJECTS</b>						
97	PNM496	Research Methodology	b,c		3	3

No	Subject Content		Element Category (a,b,c,d)	Study Load on Activities		
	Code	Name		Subjects	Practicum	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
		(Application and Practicum)	,d			
106	SII314	Introduction to Geographic Information Systems	b,c	2		2
108	KMD308	Sex, Gender, and Sexuality	b,c	2		2
109	KMD310	Techniques of Fertility, Family Planning, and Mortality Measurement	b,c	3		3
104	SIK303	Population Analysis Computer Applications (Practicum)	b,c		2	2
110	PNM409	Sampling Methods for Population Studies	b,c	2		2
<b>Subtotal credits</b>				<b>9</b>	<b>5</b>	<b>14</b>
<b>ELECTIVES</b>						
		Major Elective Subject (Cross-Discipline)		<b>2</b>		<b>2</b>
<b>Subtotal credits for the Major in Reproductive Health and Maternal and Child Health</b>				<b>11</b>	<b>5</b>	<b>16</b>
<b>4. Major in Epidemiology</b>						
<b>COMPULSORY SUBJECTS</b>						
97	PNM496	<b>Research Methodology (Application and Practicum)</b>	<b>b, c, d</b>		<b>3</b>	<b>3</b>
111	KME423	<b>Risk and Disease Mapping</b>	<b>b, d</b>	<b>2</b>		<b>2</b>

No	Subject Content		Element Category (a,b,c,d)	Study Load on Activities		
	Code	Name		Subj ects	Pra ctic um	Tot al
(1)	(2)	(3)	(4)	(5)	(6)	(7)
11 2	KME301	Epidemiology of Vaccine- Preventable Diseases	b	3		3
11 3	KME413	Data Management in Epidemiology (Practicum)	b, c		2	2
11 4	KME414	Health Screening	b	3		3
<b>Subtotal credits</b>				<b>8</b>		<b>13</b>
<b>ELECTIVES</b>						
		Major Elective Subject (Cross-Discipline)		2		2
<b>Subtotal credits for the Major in Epidemiology</b>				<b>10</b>	<b>5</b>	<b>15</b>
<b>5. Major in Health Nutritions</b>						
<b>COMPULSORY SUBJECTS</b>						
97	PNM496	Research Methodology (Application)	b,c ,d		3	3
11 5	NUM302	Nutrition and Food Service Management	b,c	2		2
11 6	NUM307	Current Nutrition Science and Technology	b,c	2		2
11 7	NUM216	Food Security	b,c ,d	2		2
11 8	NUM209	Food and Nutrition Economics	b,c ,d	2		2
11 9	NUM311	Nutrition and Productivity	b,c	2		2



No	Subject Content		Element Category (a,b,c,d)	Study Load on Activities		
	Code	Name		Subjects	Practicum	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
120	SOA103	Nutritional Anthropology	b,c	2		2
<b>Subtotal credits</b>				<b>12</b>	<b>3</b>	<b>15</b>
<b>ELECTIVES</b>						
		Major Elective Subject (Cross-Discipline)		<b>2</b>		<b>2</b>
<b>Subtotal credits for the Major in Health Nutrition</b>				<b>14</b>	<b>3</b>	<b>17</b>
<b>6. Major in Occupational Health and Safety</b>						
<b>COMPULSORY SUBJECTS</b>						
97	PNM496	Research Methodology (Application and Practicum)	b,c ,d		3	3
121	FAT305	Industrial Toxicology II	b,c ,d	2		2
122	KMK202	Occupational Diseases	b,c	2		2
123	KMK310	Industrial Hygiene II	b,c ,d	3		3
124	KMK312	Occupational Health and Safety Risk Management	b,c ,d	2		2
125	KMK313	Occupational Health and Safety Implementation (Practicum)	b,c		2	2
126	KMK306	Ergonomics and Work Physiology II	b,c	2		2
<b>Subtotal credits</b>				<b>11</b>	<b>5</b>	<b>16</b>

No	Subject Content		Element Category (a,b,c,d)	Study Load on Activities		
	Code	Name		Subjects	Practicum	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<b>ELECTIVES</b>						
		Major Elective Subject (Cross-Discipline)		2		2
<b>Subtotal credits for the Major in Occupational Health and Safety</b>				<b>13</b>	<b>5</b>	<b>18</b>
<b>7. Major in Environmental Health</b>						
<b>COMPULSORY SUBJECTS</b>						
97	PNM496	Research Methodology (Application and Practicum)	b,c ,d	3		3
127	LKM308	Environmental Sanitation	b,c	3		3
128	LKM310	Environmental Management	b,c	2		2
129	MNS404	Environmental Health Risk Assessment	b,c	3		3
130	KME425	Environmental Health Aspects in Disaster Management	b,c ,d	2		2
131	FAT206	Environmental Toxicology	b,c ,d	2		2
<b>Subtotal credits</b>				<b>12</b>	<b>3</b>	<b>15</b>
<b>ELECTIVES</b>						
		Major Elective Subject (Cross-Discipline)		2		2
<b>Subtotal credits for the Major in Environmental Health</b>				<b>14</b>	<b>3</b>	<b>17</b>

No	Subject Content		Element Category (a,b,c,d)	Study Load on Activities		
	Code	Name		Subjects	Practicum	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<b>7. Major in Health Promotion and Behavioral Science</b>						
<b>COMPULSORY SUBJECTS</b>						
97	PNM496	Research Methodology (Application and Practicum)	b,c ,d		3	3
13 2	SOK408	Integrated Health Marketing Communication	b	2		2
13 3	EDM402	Health Politics	b	2		2
13 4	PSI407	Organizational Behavior	b	2		2
13 5	PSK303	Community Empowerment in Health II	b	3		3
13 6	SOS402	Social Determinants of Health	b	3		3
<b>Subtotal credits</b>				<b>12</b>	<b>3</b>	<b>15</b>
<b>ELECTIVES</b>						
		Major Elective Subject (Cross-Discipline)		2		2
<b>Subtotal credits for the Major in Health Promotion and Behavioral Science</b>				<b>14</b>	<b>3</b>	<b>17</b>
<b>SEMESTER 8</b>						
13 7	KKM401	Internships	b, d	3		3
13 8	PNM499	Undergraduate Undergraduate Thesis	b,c	4		4
<b>Subtotal credits for semester 8</b>				<b>7</b>		<b>7</b>

No	Subject Content		Element Category (a,b,c,d)	Study Load on Activities		
	Code	Name		Subjects	Practicum	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<b>Total credits for the Bachelor Program in Public Health</b>						

#### 4.4.2 Undergraduate Nutrition Science Study Program Subjects

In general, the total credits of the Bachelor Program in Nutrition are 146 credits, comprising 142 credits of compulsory Subjects and 4 credits of elective Subjects.

Table 4.2 exhibits the details.

Table 4.2 Total Credits for the Bachelor Program in Nutrition

Subject Category	Credits	Description
(1)	(2)	(3)
Compulsory Subjects	142	-
Elective Subjects	4	-
Total credits	146	

## The curriculum structure of the Bachelor Program in Nutrition

### a. The curriculum of the Bachelor Program in Nutrition

Table 4.3 demonstrates the Subjects offered per semester by the Bachelor Program in Nutrition.

**Table 4.3 List of Subjects for the Bachelor Program in Nutrition**

No.	Subject		Component Category (a, b, c, d)	Credits		
	Code	Name		Lecture	Practicum	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<b>Semester 1</b>						
1	AGB10 AGC101 AGH101 AGI101 AGK101 AGP101	Religion I	a	2	0	2
2	NOP102	Pancasila	a	2	0	2
3	NOP103	Civics	a	2	0	2
4	BAI101	Indonesian	d	2	0	2
5	SIP107	Data and Literature	d	2	0	2
6	ETM101	Health Law and Ethics	c	2	0	2
7	KMU103	Basic Communication and Health Services	c	2	0	2
8	MAT108	Mathematics	d	2	0	2
9	KID109	Organic and Inorganic Chemistry	d	3	0	3
<b>Subtotal credits</b>				<b>19</b>	<b>0</b>	<b>19</b>
<b>Semester 2</b>						
<b>Compulsory Subjects</b>						

No.	Subject		Component Category (a, b, c, d)	Credits		
	Code	Name		Lecture	Practicum	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	BIF104	Physiology	c	3	1	4
2	PHP103	Logical and Critical Thinking	d	2	0	2
3	MNM107	Introduction to Scientific Collaboration	d	2	0	2
4	MNM106	Communication and Self-Development	d	2	0	2
5	BIA102	Anatomy	c	2	0	2
6	BID107	Introduction to Human Biology	d	2	0	2
7	MNU401	Principles of Management	d	2	0	2
8	BIK102	Introduction to Biochemistry	c	2	0	2
9	PSG105	Psychology	d	2	0	2
<b>Subtotal credits</b>				<b>19</b>	<b>1</b>	<b>20</b>
<b>Semester 3</b>						
<b>Compulsory Subjects</b>						
1	NUM204	Principles of Culinary	d	2	0	2
2.	NUM221	Principles of Culinary (Practicum)	d	0	1	1
3.	NUM222	Food Sciences and Technology	d	2	0	2
4.	NUM223	Food Sciences and Technology (Practicum)	d	0	1	1

No.	Subject		Component Category (a, b, c, d)	Credits		
	Code	Name		Lecture	Practicum	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
5.	NUM224	Food Microbiology	d	2	0	2
6.	NUM225	Food Microbiology (Practicum)	d	0	1	1
7.	NUM226	Nutrition Analysis	c	1	1	2
8.	NUM101	Principles of Nutrition Science	b	2	0	2
9.	NUM216	Food Security	b	2	0	2
10.	AGB401 AGC401 AGH401 AGI401 AGK401 AGP401	Religion II	a	2	0	2
11.	SOS236	Sociology of Nutrition	d	2	0	2
12.	SOA103	Nutritional Anthropology	d	2	0	2
<b>Subtotal credits</b>				<b>17</b>	<b>4</b>	<b>21</b>
<b>Semester 4</b>						
<b>Compulsory Subjects</b>						
1	NUM227	Food Formulation	b	2	0	2
2	NUM215	Food Formulation (Practicum)	b	0	1	1
3	NUM302	Management of Industrial Food and Nutrition Services	b	2	0	2
4	NUM329	Management of Industrial Food and	b	0	1	1

No.	Subject		Component Category (a, b, c, d)	Credits		
	Code	Name		Lecture	Practicum	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
		Nutrition Services (Practicum)				
5	KLM304	Management of Industrial Food and Nutrition Services Fieldwork	a, b	0	2	2
6	NUM105	Nutrition in the Life Cycle	b	2	0	2
7	NUM229	Nutrition in the Life Cycle (Practicum)	b	0	1	1
8	NUM406	Nutritional Assessment	b	2	0	2
9	NUM402	Nutritional Assessment (Practicum)	b	0	2	2
10	NUM231	Food and Nutrition Entrepreneurship (Practicum)	a	0	2	2
11.	NUM211	Food Safety	c	2	0	2
12.	NUM103	Energy and Macronutrient Metabolism	b	2	0	2
13.	NUM104	Micronutrient Metabolism	b	2	0	2
<b>Subtotal credits</b>				<b>14</b>	<b>9</b>	<b>23</b>
<b>Semester 5</b>						
<b>Compulsory Subjects</b>						



No.	Subject		Component Category (a, b, c, d)	Credits		
	Code	Name		Lecture	Practicum	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	NUM321	Food Consumption Survey	b	2	0	2
2	NUM322	Food Consumption Survey (Practicum)	b	0	1	1
3	NUM203	Nutrition Education	b	2	0	2
4	NUM323	Nutrition Education (Practicum)	b	0	1	1
5	MAS210	Statistics	d	2	0	2
6	MAS115	Statistics (Practicum)	d	0	1	1
7	NUM306	Nutritional Computing (Practicum)	d	0	2	2
8	BIF301	Pathophysiology for Infectious Diseases and Malnutrition	c	2	0	2
9	BIF302	Pathophysiology for Degenerative Diseases	d	2	0	2
10	NUM324	Standardized Nutrition Care Process (NCP)	b	2	0	2
11	NUF302	Pharmacology and Food-Drug Interactions	c	2	0	2
12	NUM314	Sports Nutrition	b	2	0	2
<b>Elective Subjects</b>						
13	NUM209 NUM311	Electives I	c, d	2	0	2

No.	Subject		Component Category (a, b, c, d)	Credits		
	Code	Name		Lecture	Practicum	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	NUM310 NUM313 NUM312	Food and Nutrition Economics Nutrition and Productivity Nutrition and HIV/AIDS Emergency Nutrition Industrial Nutrition				
<b>Subtotal credits</b>				<b>18</b>	<b>5</b>	<b>23</b>
<b>Semester 6</b>						
<b>Compulsory Subjects</b>						
1	NUD302	Dietetics for Infectious Diseases and Deficiency	b	2	0	2
2	NUD303	Dietetics for Infectious Diseases and Deficiency (Practicum)	b	0	1	1
3	NUD304	Dietetics for Degenerative Diseases	b	2	0	2
4	NUD305	Dietetics for Degenerative Diseases (Practicum)	b	0	1	1
5	NUM202	Nutritional Counseling	b	2	1	3
6	PNM491	Research Methodology	c	2	0	2
7	NUM318	Urban Nutrition	b	2	0	2

No.	Subject		Component Category (a, b, c, d)	Credits		
	Code	Name		Lecture	Practicum	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
8	NUM207	Nutrition Programs and Evaluation	b	2	0	2
9	NUM210	Epidemiology of Nutrition	c	2	0	2
10	BAE110	English	c	2	0	2
11	KNM401	Community Services	a, b	0	3	3
<b>Elective Subjects</b>						
12	NUM315 PSO403 NUM326 NUM327	Electives II Vegetarian Nutrition Consumer Behavior Geriatric Nutrition Functional Food	c, d	2	0	2
		<b>Subtotal credits</b>		<b>18</b>	<b>6</b>	<b>24</b>
<b>Semester 7</b>						
<b>Compulsory Subjects</b>						
1	NUM307	Current Nutrition Science and Technology	b	2	0	2
2	PNM498	Undergraduate Thesis Proposal	b, c	0	2	2
3	KLM402	Community Nutrition Fieldwork	a, b	0	4	4
4	KLM403	Dietetics Fieldwork	a, b	0	4	4
		<b>Subtotal credits</b>		<b>2</b>	<b>10</b>	<b>12</b>

No.	Subject		Component Category (a, b, c, d)	Credits		
	Code	Name		Lecture	Practicum	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<b>Semester 8</b>						
1	PNM499	Undergraduate Thesis	b, c	0	4	4
<b>Subtotal credits</b>				<b>0</b>	<b>4</b>	<b>4</b>
<b>Total credits</b>				<b>107</b>	<b>39</b>	<b>146</b>

The Bachelor of Nutrition Study Program offers 9 elective Subjects, including Food and Nutrition Economics, Nutrition and Productivity, Nutrition and HIV AIDS, Emergency Nutrition, and Industrial Nutrition which can be selected in semester 5, as well as Vegetarian Nutrition, Consumer Behavior, Geriatric Nutrition, and Functional Food which can be selected in semester 6. The following are the study load, competencies and competency elements in the elective Subjects.

**Table 4.4 List of Elective Subjects for Undergraduate Nutrition Study Program**

No.	Subject		Credits	Competence Category	Competence Component
	Code	Name			
1	NUM209	Food and Nutrition Economics	2	Specific	MKB
2	NUM311	Nutrition and Productivity	2	Specific	MKB
3	NUM310	Nutrition and HIV/AIDS	2	Specific	MKB
4	NUM313	Emergency Nutrition	2	Specific	MKB
5	NUM312	Industrial Nutrition	2	Specific	MKB
6	NUM315	Vegetarian Nutrition	2	Specific	MKB
7	PSO403	Consumer Behavior	2	Specific	MKB
8	NUM326	Geriatric Nutrition	2	Specific	MKB
9	NUM327	Functional Food	2	Specific	MKB

# **CHAPTER V**

## **LECTURES**

### **5.1 LECTURES**

a. The academic year is divided into 2 (two) semesters:

- 1) The odd semester takes place from August to January.
- 2) Even semester takes place from February to July.

Semester is a period of teaching and learning activities for 16 to 20 weeks of lectures or other scheduled activities, including 2 to 4 weeks of assessment activities (examinations).

A semester credit unit, hereinafter referred to as credits, is a measure of appreciation for the learning experience gained during one semester through scheduled activities. Per week 1 hour of lecture or 2 hours of practice, or 4 hours of field work accompanied by about 1-2 hours of structured activities and about 1-2 hours of independent activities.

b. For lectures, the value of semester credit units is determined based on the activity load, which in total includes 3 kinds of activities per week for 1 semester as follows:

1) For Students

- a) 1 (one) hour of scheduled face-to-face contact with teaching staff, for example in the form of lectures (1 face-to-face hour is equivalent to 50 minutes)
- b) 1 (one) hour of structured academic activities, namely study activities that are not scheduled but planned by teaching staff, for example in the form of giving homework or other assignments outside the classroom.
- c) 1 (one) hour of independent academic activities, namely activities that must be carried out by students independently to explore or prepare for an academic assignment, for example in the form of reading reference books

2) For Teaching Staff

- a) 1 hour of scheduled face-to-face with students (1 hour of face-to-face is equivalent to 50 minutes)
- b) 1 hour of planning and evaluation of structured academic activities, which will / have been done by students.
- c) 1 hour of development of Subject material through reading and writing

3) Seminar Activities

For teaching and learning activities in the form of seminars, which require students to make papers and present them in a forum, the definition of 1 (one) credit is equal to 42 hours of unscheduled structured academic activities in one semester.

4) Group Discussion Activities, Research and Undergraduate Thesis Preparation. Semester credit units for learning activities in the form of group discussions, laboratory practicum, research, field work and Undergraduate Thesis preparation, the semester credit value is determined as follows:

a) For group discussion activities

For teaching and learning activities in the form of group discussions, the value of one (1) credit = activity task load of 2 hours / week for 1 semester.

b) For research activities, preparation of final assignments, and preparation of theses for learning activities in the form of research or preparation of final assignments and theses, the value of 1 credit is equivalent to a task load of 3-4 hours a day for 1 month, provided that 1 month is calculated to be equivalent to 25 working days.

## 5.2 ATTENDANCE LIST

When attending lectures, practicums, PKL, internships and KKN, students are required to fill out an attendance list. The number of student attendance at each learning activity is used to determine whether the student is allowed to take the exam.

Each student is required to attend lecture activities in accordance with their study plan in an orderly and regular manner based on applicable regulations, with a minimum of 75% attendance in lectures and 100% attendance in practicum from the required number of face-to-face meetings. If attendance is less than 75% of the lecture, it is obligatory to fill out a form (in the academic department) by including valid evidence (letter of assignment to be a delegate of the Faculty/University, a doctor's letter validated by the PLK no later than 1 week from the absence date). Those who do not meet this provision are not allowed to take the mid-semester exam (UTS) and or the final semester exam (UAS), and the person concerned is declared not to have taken the Subject or is declared to get an E grade for the Subject.

### 5.3 STUDY PLAN CARD AND STUDY RESULT CARD

Every student must have a Study Plan Card (KRS) and Study Result Card (KHS)..

#### a. Study Plan Card (KRS)

KRS must be filled out online before students take scheduled lectures. The maximum amount of study load that can be taken is determined by learning achievement, which is expressed in the Achievement Index (IP). The amount of additional study load that applies to odd or even semesters before and after, can only be taken with the approval of the guardian lecturer.

Maximum amount of study load based on IP:

- IP  $\geq$  3,00 : number of semester packages plus a maximum of 4 credits
- IP 2,50 – 2,99 : number of semester packages plus a maximum of 2 credits
- IP < 2,50 : number of semester packs

KRS filling follows the following procedure:

- 1) Show Student Card or proof of SOP payment and KHS (KHS only for old students)
- 2) Filled in by students online (UACC) with the approval of the guardian lecturer
- 3) Then printed in triplicate signed by the guardian lecturer (maximum the second week after the lecture takes place, without KRS can not follow the UTS).
- 4) KRS is submitted a maximum of the second week after the lecture takes place at the Academic Subdivision.

#### b. Change and cancellation of study plan (KPRS)

Changes and cancelation of study plans are made with the following conditions:

- 1) Already filled in KRS
- 2) Fill out a new Study Plan Change Card (KPRS) online UACC approved by the guardian lecturer within the time frame according to the academic calendar. KRS / KPRS is collected no later than the 4th week of lecture

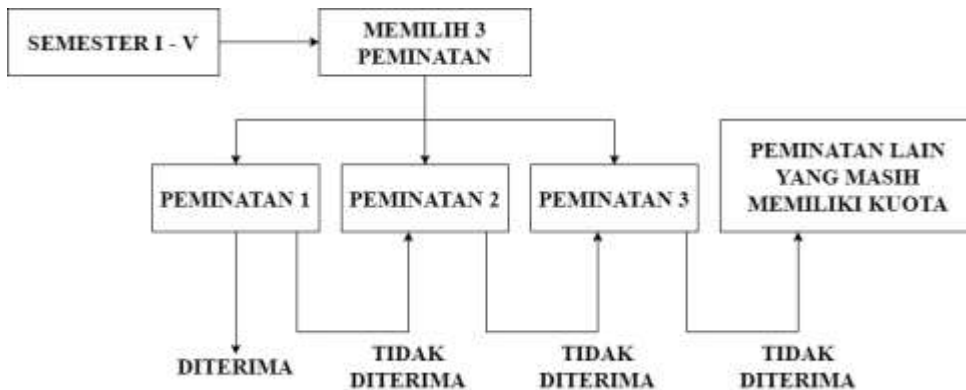
### 5.4 MAJOR

Specialization is held on the basis of external demands contained in the academic text of public health undergraduate education and internal demands from the public health undergraduate curriculum guide. This specialization Subject is only intended for students of the public health study program with the requirement to have taken the 5th semester with the condition that they have taken 104 mandatory credits.

#### a. The specialization Subject selection process includes:

- 1) Students choose 3 Majors based on priority scale
- 2) The selection of specialization is based on the GPA value obtained from

semester 1 to 5, an example of the specialization lecture selection process can be seen in the following chart:



Gambar 5.1 Proses Penentuan Peminatan

- 3) Students accepted in each Major are based on the number of department lecturers who can guide the Undergraduate Thesis.
  - 4) The results of the specialization selection will be determined by the Coordinator of the S1 Public Health Study Program and approved by the Vice Dean I of the Faculty of Public Health.
- b. Cross-Linked Subjects (LM)

Cross-Major Subjects are Subjects that can be taken by students outside the Majors that have been chosen. The number of cross-Major Subjects that can be selected by students is 2 credits of cross-Major Subjects (LM) in semester 7. Students can only choose LM whose schedules do not clash with other LM schedules, if the selected LM clashes then the system will automatically reject. The student quota for each LM Subject is 10 - 50 students, if the LM quota has been met then the LM cannot be selected again by students. Selection of cross-Major Subjects is based on the KRS schedule at the beginning of the semester.

## 5.5 ACADEMIC ADVISOR

Each student during their education is guided by a permanent lecturer as a guardian lecturer appointed by the Dean. During the implementation of the guidance, the guardian lecturer provides a signature and guidance notes on the Student Status Card and guidance is carried out at least 3 times during 1 semester. The guardian lecturer has duties, among others:

- a. Providing information about educational programs at FKM in the broadest sense possible
- b. Give consideration to students about the number of credits (credits)
- c. Provide direction to students in preparing study plans and give consideration to students in choosing Subjects taken for the semester that will take place
- d. Monitoring the progress of each student's studies so that they can find out as early



- as possible the obstacles to student studies
- e. Provide consultation to students who are experiencing difficulties and if deemed necessary to forward the problem to the Head of the Faculty to be able to obtain guidance and counseling services from the authorities
  - f. Keeping the Study Plan Card (KRS) that has been filled in by the student being guided and has been approved by the relevant guardian lecturer.

In order to be able to carry out the above tasks as well as possible, the guardian lecturer must:

- a. Understand in depth the procedures for organizing education according to the Semester Credit System
- b. Understand the rules and regulations issued to facilitate the implementation of education
- c. Have sufficient time to conduct consultations with the students being supervised
- d. Able and willing to consult effectively with the students being supervised

Other matters that have not been regulated and determined in this Education Handbook, will be regulated and compiled further.

## **5.6 THE SEMESTER BETWEEN**

### **a. Program Objective**

The purpose of the intermediate semester is to give students the opportunity to repeat Subjects that have been taken in the previous semester in order to improve grades.

### **b. Intermediate semester can be held if: 1. PJMK is willing to hold an intermediate semester, 2. The intermediate semester participants are at least 10 people.**

### **c. Subject Time**

The intermediate semester is held twice a year, namely during academic holidays, with 16 face-to-face sessions including UTS and UAS which are held for about ± 4 weeks..

### **d. Total credits**

The number of credits that can be programmed by each student is a maximum of 9 credits.

### **e. Assessment**

Grades are considered valid if there are at least 2 assessments. The highest grade is A and the lowest grade is E. If the repeating student gets less than the previous grade, the best grade will be used.

### **f. Cost**

Students are charged according to the credits taken, the amount of the fee is regulated by the faculty.

### **g. Other Terms**

Subjects that have been programmed may not be canceled.

No	Number Value	Letter Grade	Quality Value
1	$\geq 75$	A	4
2	70,00-74,9	AB	3,5
3	65,0 - 69,9	B	3
4	60,0 - 64,9	BC	2.5
5	55,0 - 59,9	C	2
6	40,0 - 54,9	D	1
7	< 40,0	E	0

Table 5.1 Assessment

## 5.7 PRACTICUM

### 5.7.1 Practicum in the Undergraduate Program of Public Health

- a. All students are required to participate in all practicum activities. Practicum is carried out in the field or in the laboratory, which is attended only by registered students. Students can take the exam if they meet 100% attendance of all practicum activities (except when there is valid information including: sick certificate and assignment letter from faculty or university).
- b. For students who are absent with valid information, they are obliged to replace student practicum on another day according to an agreement with the PJMK concerned, report and submit proof of having participated in practicum to the academic department. For students who are absent without valid information (assignment letter to be a delegate of the Faculty/University, doctor's letter validated by PLK), it is stated that they have not participated in the practicum concerned.
- c. Laboratory Practicum provided are:
  - 1) Practicum in public health administration aims to provide managerial and administrative skills for managing and developing health programs and health administration programs.
  - 2) Practicum in biostatistics and population aims to provide skills in the fields of biostatistics, population and family planning.
  - 3) Practicum in epidemiology aims to provide skills for the management of disease eradication programs and epidemiological data management.
  - 4) Practicum in nutrition aims to provide skills in anthropometric and dietetic methods to determine the nutritional status of the community, make nutritional data collection instruments and analyze the data.

- 5) Practicum in the field of corporate hygiene, occupational health and occupational safety aims to provide skills for managing the development of occupational health and occupational safety programs.
- 6) Practicum in environmental health aims to provide skills in analyzing water, dust, ventilation measurements, air temperature, air humidity, lighting, noise and other physical factors in the human environment for the management of environmental health programs.
- 7) Practicum in the field of health promotion and behavioral science aims to provide skills for managing health education / counseling programs and developing educational approaches to implementing health programs.

### **5.7.2 Practicum in the Undergraduate Program of Nutrition Science**

- a. All students are required to participate in all practicum activities. Practicum is carried out in the field or in the laboratory, which is attended only by registered students. Students can take the exam if they meet 100% attendance of all practicum activities (unless there is a valid certificate including: a letter of assignment to be a delegate of the Faculty/University, a doctor's letter validated by the PLK).
- b. For students who are absent with valid information (assignment letter to be a delegate of the Faculty/University, a doctor's letter validated by PLK), must replace educational activities according to the number of days left in the odd or even semester of the following year. For students who are absent without valid information, it is stated that they have not participated in the practicum concerned.

## **5.8 FIELD WORK PRACTICE (PKL) OF THE UNDERGRADUATE PROGRAM OF PUBLIC HEALTH**

### **5.8.1 PKL in the Bachelor of Public Health Study Program**

- a. All students of the Public Health Undergraduate Program (S1) are required to take part in PKL which is held during the fifth to sixth semester break. PKL is carried out for a period of 6 - 7 weeks.
- b. Further provisions regarding PKL are contained in the PKL Guidebook.

### **5.8.2 PKL in the Bachelor of Nutrition Study Program**

- a. All students of the Bachelor Program (S1) Nutrition are required to take PKL Food Service Industry Management and Nutrition (MIPMG) in semester 4 with a study load of 2 credits, PKL in Public Nutrition in semester 7 with a study load of 4 credits, and PKL in Dietetics in semester 7 with a study load of 4 credits.
- b. Further provisions regarding the technical implementation of each PKL are contained in the PKL guidebook.

## **5.9 INTERNSHIP**

### **5.9.1 Internship in Bachelor of Public Health Study Program**

Internship is an independent student activity carried out outside the campus environment to gain practical work experience in accordance with their field of specialization through observation and participation methods. Every undergraduate student of the Public Health Study Program who has completed up to the VII semester is required to take an internship which is a compulsory curriculum activity. Internships are carried out for a minimum of 6 weeks with details of activities including: preparation, implementation of internships in agencies, supervision by supervisors, making reports and seminars. Further provisions regarding internships are contained in the Internship Guidelines book.

## **5.10 COMMUNITY SERVICE PROGRAM (KKN)/LEARNING WITH THE COMMUNITY**

Every student of the Undergraduate Program (S1) Faculty of Public Health who has programmed at least 80 credits and does not have an E grade, must take part in KKN with a weight of 3 credits. KKN activities are carried out together with students from other faculties within Universitas Airlangga and the implementation is regulated by the Institute for Research and Community Service (LPPM) Universitas Airlangga.

## **5.11 IMPLEMENTATION OF MERDEKA BELAJAR- KAMPUS MERDEKA (MBKM)**

The Faculty of Public Health facilitates students to gain learning experience from outside the study program through the Merdeka Belajar - Kampus Merdeka program. In addition, students are also given the opportunity to gain learning experience from student exchange programs both at home and abroad. Other study program offerings at Universitas Airlangga can be seen from the Airlangga Smart Education Handbook and the learning administration system (Universitas Airlangga Cyber Campus / UACC). Students can choose Subjects according to the path that will be useful for the preparation of the final project (Undergraduate Thesis or equivalent alternative) or which will later be used in the career. The selection of learning outside the study program must be consulted in advance with each student's guardian lecturer.

Students can join study programs offered by other study programs outside Universitas Airlangga that contribute to the completion of the final project or that will later benefit their career through education/knowledge enrichment. In addition, students are allowed to study at non-university institutions and can convert them into Subjects through the Semester Credit System (credits). Details of activities on Merdeka

Belajar - Kampus Merdeka (MBKM) can be accessed through the official website of the Ministry of Education and Culture, namely [kampusmerdeka.kemdikbud.go.id](http://kampusmerdeka.kemdikbud.go.id).

### 5.11.1 MBKM Implementation Scheme in the Public Health Undergraduate Study Program

Table 5.2 MBKM Implementation Scheme of Public Health Undergraduate Study Program

<b>Bachelor Program Learning Activities, 146 credits</b>								
	<b>SEM 1</b>	<b>SEM 2</b>	<b>SEM 3</b>	<b>SEM 4</b>	<b>SEM 5</b>	<b>SEM 6</b>	<b>SEM 7</b>	<b>SEM 8</b>
	<b>19 credits</b>	<b>20 credits</b>	<b>21 credits</b>	<b>21 credits</b>	<b>23 credits</b>	<b>20 credits</b>	<b>15 credits</b>	<b>7 credits</b>
1	Joint Lecture of General Subjects (PDB) Study Program Subjects within the Study Program	Joint Lecture of General Subjects (PDB) Study Program Subjects within the Study Program	Study Program Subjects within & outside the Study Program within the University	Study Program Subjects within & outside the Study Program within the University	Study Program Subjects within & outside the Study Program within the University	Study Program Subjects within & outside the Study Program & Learning outside the University: Community Services	Study Program Subjects within & outside the Study Program & Learning outside the University	Learning outside the University: Internships & Undergraduate Thesis

### 5.11.2 MBKM Implementation Scheme in the Nutrition Science Undergraduate Study Program

Table 5.3 MBKM Implementation Scheme in the Bachelor Program in Nutrition

Bachelor Program Learning Activities, 146 credits								
	SEM 1	SEM 2	SEM 3	SEM 4	SEM 5	SEM 6	SEM 7	SEM 8
	19 credits	20 credits	21 credits	23 credits	23 credits	24 credits	12 credits	4 credits
1	Joint Lecture of General Subjects (PDB) Study Program Subjects within the Study Program	Joint Lecture of General Subjects (PDB) Study Program Subjects within the Study Program	Study Program Subjects within & outside the Study Program within the University	Study Program Subjects within & outside the Study Program within the University	Study Program Subjects Within & Outside the Study Program	Study Program Subjects within & outside the Study Program & Learning outside the University : Community Services	Study Program Subjects within & outside the Study Program & Learning outside the University: Fieldwork	Undergraduate Thesis

Table 5.4 Learning Activities outside the University

No.	Learning Activity	Load of Credits		Description
		Regular	MBKM	
1	Fieldwork	10	≤20	MBKM Internships can be converted into several Subjects with Graduate Learning Outcomes (CPL) and study time compatibility following the Subject's credits of MIPMG, Dietetics, and Community Nutrition fieldworks.
2	Community Services (KKN and KKNT)	3	≤20	MBKM Thematic Community Services (KKNT), the extensions of the Regular Community Services (KKN), can be converted into several Subjects with CPL and study time compatibilities following the Subject's loads of credits.
3	Entrepreneurship	2	≤20	The Student Creativity Program of Entrepreneurship (PKM-K) can be converted into the Food and Nutrition Entrepreneurship Practicum and Entrepreneurship Integration Subjects.
4	Teaching Assistance in Education Units (AMSP)	3	≤20	The Teaching Campus (Kampus Mengajar) program can be converted into the Community Services Subject.
5	Research	6	≤20	Activities such as the Scientific Paper Competition (LKTI), Student Creativity Programs of Research (PKM-P), Written Ideas (PKM-GT), and Innovation (PKM-KC) can be converted into several Subjects with CPL compatibilities, such as

No.	Learning Activity	Load of Credits		Description
		Regular	MBKM	
				Undergraduate Thesis Proposal or Undergraduate Thesis.
6	Independent Projects	2	≤20	Independent internships can be converted into several Subjects with CPL and study time compatibilities following the Subjects' loads of credits.
7	Humanitarian Projects	3	≤20	Activities such as You Can Empower, Millenial Services (Bakti Millenial), Covid-19 Volunteers, and Healthy Mothers and Children Care Movement to Build Excellent Family-Based Generation (Geliat Airlangga) can be converted into several Subjects with CPL and study time compatibilities following the Subjects' loads of credits, such as Community Services.

Undergraduate students at the Faculty of Public Health who have the desire to participate in MBKM activities can convert grades into Subject credits. Terms and conditions are listed in the MBKM Conversion SOP at the Faculty of Public Health.

### 5.12 UNDERGRADUATE THESIS WRITING

At the end of the study period, each student is required to write a Undergraduate Thesis which will be tested in the VIII semester of the Bachelor of Public Health Study Program lecture, while in the Bachelor of Nutrition Study Program, the Undergraduate Thesis proposal will be tested in the VII semester while the Undergraduate Thesis will be tested in the VIII semester.

The Undergraduate Thesis preparation process consists of:

1. Preparation of a Undergraduate Thesis proposal under the guidance of a supervisor,
2. Undergraduate Thesis proposal seminar (for students of undergraduate Public Health Study Program), and Undergraduate Thesis Proposal Examination (for students of undergraduate Nutrition Study Program)
3. Research,



4. Undergraduate Thesis Examination.
5. All stages of the Undergraduate Thesis preparation process are regulated in the Undergraduate Thesis guidebook.

### **5.13 RULES FOR LECTURERS AND PRACTICUMS**

In order for the education and teaching process to run smoothly, so that the teaching objectives can be achieved, it is necessary to have DISCIPLINE.

1. General Rules of Procedure
  - a. Students are obliged and must behave politely towards fellow students, lecturers and educational staff.
  - b. Students are obliged and must comply with the rules and regulations set by Airlangga University and the Faculty of Public Health.
2. Rules of Procedure for Lectures/Practicum/Examination
  - a. During the lecture/practicum/exam, students are required to fulfill the following conditions:
    - 1) Be polite to the lecturer concerned
    - 2) Dress clean, neat, polite, appropriate, and do not wear pants / skirts with jeans, shoes (do not wear T-shirts / T-shirts covered by jackets, do not wear sandals)
    - 3) No smoking
    - 4) It is forbidden to leave the lecture room, except with the permission of the lecturer concerned. Violation of provisions 1 to 4 may result in the student concerned being subject to sanctions, in the form of not being allowed to attend lectures or practicums.
  - b. Students who commit fraud in learning activities (Lectures, Practicums, Examinations, PKL, KKN, Internships, and Undergraduate Thesis) will be subject to sanctions, in the form of:
    1. A stern verbal or written warning,
    2. Cancellation of examination grades for the Subject or academic activity concerned,
    3. Not passing the Subject or academic activity concerned,
    4. Not passing all Subjects in the ongoing semester,
    5. Temporary suspension of academic activities for a certain period of time,
    6. Dismissal / termination or expulsion from UNAIR (according to Airlangga University Education Guide 2021).

## **CHAPTER VI EDUCATION EVALUATION**

Student learning activities and progress are assessed regularly. Assessment takes the form of examinations and other forms of assessment. Evaluation of student learning progress is carried out on the basis of curriculum and academic activities at the Faculty of Public Health, Universitas Airlangga.

### **6.1 EXAM REGISTRATION REQUIREMENTS**

#### **1. Academic Requirements**

- a. Examinations taken are for Subjects programmed in KRS
- b. Attend at least 75% of the lecture activities organized for the Subject concerned and attend 100% for practicum.
- c. Carry out all practicum activities and other assignments determined by the study program or lecturer of the Subject concerned.

#### **2. Administration Requirements**

- a. Have paid off the required UKA and UKT payments
- b. Registered as a student in the academic year concerned by showing a valid student card

### **6.2 TYPE OF EXAM**

Student learning activities and progress are assessed periodically, which can take the form of examinations, assignments and lecturer observations. Officially scheduled exams include semester exams and Undergraduate Thesis exams. Assessment of PKL, internship and KKN activities is based on applicable guidelines. The types of exams are:

1. Semester Exams :
  - a. Midterm Exam (UTS)
  - b. Final Semester Exam (UAS)The schedule for UTS and UAS is set by the Study Program. UTS and UAS are compulsory
2. A Undergraduate Thesis Examination (check Guidelines for Writing and Procedures for the Undergraduate Thesis Examination).

### **6.3 EXAM INSTRUMENT**

The exam instrument given for a Subject may take the form of:

1. Lecture examination instruments, may take the form of:
  - a. Written exam
  - b. Oral exam

- c. Completing exercise questions
  - d. Making a paper
  - e. Making a report
  - f. Making a summary of a required reading
  - g. Participating in a response
2. Undergraduate Thesis examination instrument

#### 6.4 SCORING SYSTEM

1. Assessment of learning outcomes is expressed by the letters A, AB, B, BC, C, D, and E, which are worth 4, 3.5, 3, 2.5, 2, 1, 0 respectively.
2. Standardization of Raw Grades into Letter Grades as follows:

**Table 6.1** Raw Value Standardization

No	Number Value	Letter Grade	Quality Value
1	$\geq 75$	A	4
2	70 – 74,9	AB	3,5
3	65 – 69,9	B	3
4	60 – 64,9	BC	2,5
5	55 – 59,9	C	2
6	40 -54,9	D	1
7	< 40,0	E	0

#### Achievement Index:

$$\text{Achievement Index (I.P.)} = \frac{\sum_{i=1}^n (N_i \times K_i)}{\sum_{i=1}^n K_i}$$

$N_i$  = the numerical value of the evaluation result

$K_i$  = the amount of semester credit units (credits)

$n$  = the number of Subjects taken in the semester concerned

$i$  = Subject ( $i=1, 2, 3, n$ )

The graduation cumulative grade point average (GPA) is expressed in the form of a predicate:

1. Satisfactory
2. Very satisfactory
3. With honors

This graduation predicate was delivered at the time of taking the oath as a Bachelor of Public Health (S.KM) and Bachelor of Nutrition (S.Gz). Especially for the cumulative grade point average (GPA), the predicate of graduation with honors is determined by taking into account the study period (minimum study period + 1 year).

Table 6.2 Graduation Predicate

GPA	Predicate
2,00 – 2,75	Satisfactory
2,76 – 3,50	Very Satisfactory
3,51 – 4,00	With Honors (Cumlaude)

## 6.5 IMPLEMENTATION OF THE ASSESSMENT

The final grade for each Subject is at least based on the mid-semester exam score and the final semester exam score, hereinafter referred to as the main exam.

### a. Main Exam

The main exam is held in the middle of the semester and at the end of the semester. The exam score is the sum of the Mid-Semester Examination (UTS) and Final Semester Examination (UAS) scores by taking into account their respective weights. The provisions regarding assessment are:

1. The grades of UTS, UAS, and assignments with the composition are arranged by each PJMK (Person in Charge of the Subject).
2. If in addition to UTS and UAS there are other grades, such as the value of making papers, reading assignments and others (see evaluation instruments), then the main value results are submitted to the PJMK lecturer.
3. Students who take the exam of a Subject that is not listed in KRS, the value obtained is invalid and not recognized.
4. UTS and UAS scores are entered by PJMK lecturers into the Airlangga University Cyber Campus (UACC) system a maximum of fourteen (14) effective days after the exam.

5. Students can access their grades in the Airlangga University Cyber Campus (UACC) system.
6. Print outs that have been signed by PJMK are sent to the academic subdivision.
7. Students can file a complaint/protest against the UTS/ UAS grades. PJMK must process student complaints no later than 7 (seven) days after the grades are announced.
8. Student complaints or protests against grades can change student grades if:
  - a. The material complained about is correct, the grade changes upward according to the lecturer's correction;
  - b. Complaints are not true / made up, the lecturer has the right to lower the grade by at least 1 (one) interval.
  - c. PJMK revises the grade changes complained by students into UACC. Print out of the revised grade is sent to the academic subdivision along with related evidence/concerns.
9. Grade changes at the initiative of the lecturer can only be made if it gets approval from the Deputy Dean for Academic and Student Affairs with acceptable reasons, and no later than 2 (two) weeks after the grade is announced.

b. Subsequent Examinations

Subsequent Examinations are carried out if students cannot attend the main examination and must submit a supplementary examination application letter to the Vice Dean I with a valid or recognized certificate. The certificate can be in the form of a certificate from a doctor of a health service agency, a clash of exam schedules, a certificate of assignment from the university. Time limit: The implementation of the follow-up exam is a maximum of 2 (two) weeks after the exam schedule. If you do not take the follow-up exam within the specified time period, it is considered that you did not take the exam. The maximum grade for the follow-up exam is A.

c. Remedial Exam

1. The implementation of the remedial exam is left to PJMK
2. The remedial exam is held no later than 2 weeks after the main exam.
3. The remedial exam can be followed by students who get grades D and E.
4. The highest grade of the remedial exam is C.

## 6.6 EXAM RULES

In participating in the Mid-Semester Examination (UTS) / Final Semester Examination (UAS) held, students are required to comply with the following provisions:

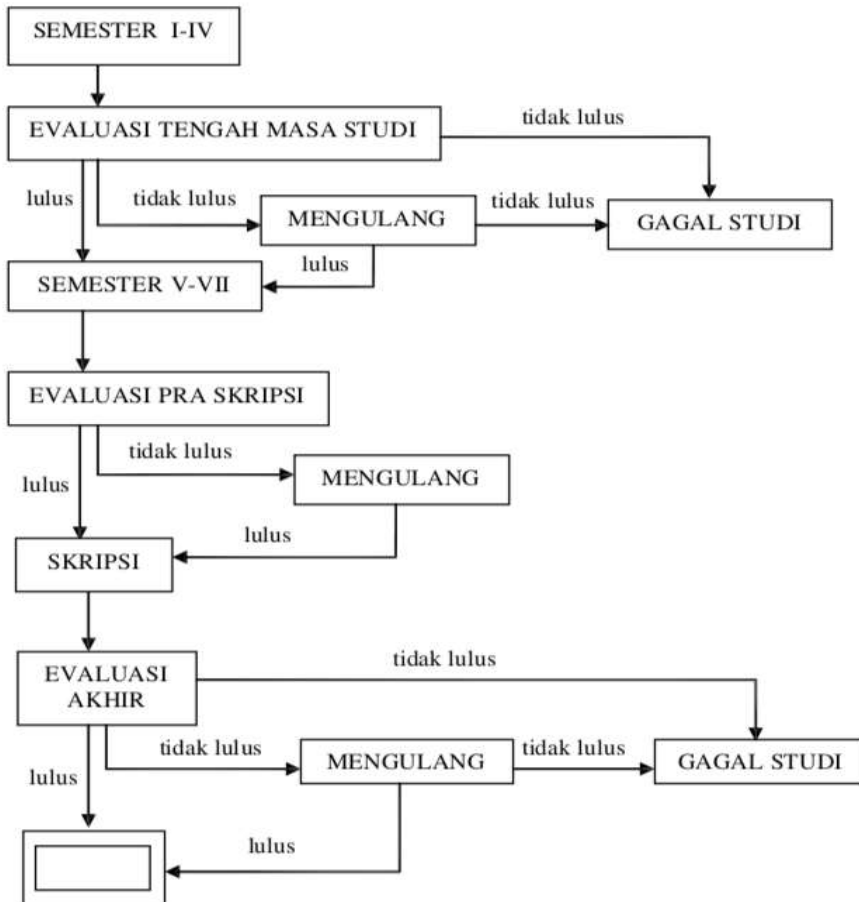
1. Occupy the designated place/room
2. Bring a Student Card
3. Bring a Study Plan Card (original) that has been signed by the supervisor (checked during the exam by the supervisor)
4. Bringing stationery, except for exam papers, students are not allowed to borrow equipment during the exam
5. Books / notes must be placed in a predetermined place
6. The maximum tolerance for late exams is 30 minutes and does not get additional exam time. If the student arrives beyond the tolerance time limit, he/she will not be allowed to take the exam.
7. Wear polite, neat clothes with the following conditions:
  - a. Using a shirt / shirt top material with a collar.
  - b. Wearing cloth trousers / long skirt with cloth material
  - c. Wearing shoes (not shoes with heels)
8. During the exam, students are prohibited from:
  - a. Talking to fellow examinees
  - b. Looking at / taking other participants' work papers
  - c. Opening books / notes in any form without the permission of the relevant Subject lecturer or exam supervisor
  - d. Committing acts of cheating in any form
  - e. Performing actions that can disturb the peace and order of the exam implementation
  - f. Bringing electronic devices in any form (cellphone, watch, MP3)
  - g. Leaving the exam room during the exam.
9. All examinees must submit their question papers and answers.
10. Violation of condition no. 8 may result in:
  - a. Students are given a warning
  - b. The student is recorded in the Minutes and affects the score
  - c. Students are removed from the exam room.
  - d. Students are declared canceled, maximum all Subjects in the midterm exam period / final exam of the semester concerned.
11. For students who take the exam for the benefit of other students, both will be subject to "suspension" for 2 (two) semesters and all exam numbers for the semester concerned are canceled, the sanctions are determined by the Rector of Airlangga University submitted by the Dean of the Faculty of Public Health.

- Students who are unable to take the exam are required to submit a valid statement / reason, for consideration so that they can / at least take a follow-up exam.

## 6.7 STUDY EVALUATION

In addition to monitoring learning success at the end of each semester, an evaluation of learning success is also carried out to determine student graduation. Evaluation of graduation learning outcomes is carried out on:

- End of semester V, referred to as mid-term evaluation
- End of semester VIII, referred to as the final evaluation of the study period



### 6.7.1 Mid-term evaluation

It is used to determine whether students can continue their learning activities in the next semester, repeat or fail their studies.

The result of the evaluation is the Grade Point Average (GPA), which is calculated based on the best value of the total Subjects that have been taken, used to determine whether students may or may not continue their studies.

- a. Students may continue in the Study Program if they meet the following requirements:
  - 1) Bachelor of Public Health students have taken at least 81 credits, Bachelor of Nutrition students have taken at least 83 credits of the total credits programmed according to the package per semester.
  - 2)  $GPA \geq 2.00$
- b. Students who are declared graduated, can continue learning activities in the following semester provided that they have taken all the Subjects programmed,  $GPA \geq 2.00$ .

### **6.7.2 Undergraduate Thesis Evaluation**

Pre-Undergraduate Thesis evaluation is carried out at the end of semester VII to determine whether students can take a Undergraduate Thesis Subject as the final project of their study period in semester VIII. Pre-Undergraduate Undergraduate Thesis evaluation is regulated in the Undergraduate Thesis Guidebook.

### **6.7.3 End of study period evaluation**

The evaluation results determine the success of students in completing the undergraduate program and are entitled to use the Bachelor of Public Health (S.KM) degree in the Bachelor of Public Health Study Program or are entitled to use the Bachelor of Nutrition (S.Gz) degree in the Bachelor of Nutrition Study Program, repeat or fail the study.

Students are declared to have successfully completed the undergraduate program, if:

- a. Have accumulated the credit requirements of the Undergraduate Program,
- b. Grade Point Average ( $GPA \geq 2.00$ )
- c. There are no E grades,
- d. There are no D grades with credits that exceed 10%,
- e. Have passed Field Work Practices,
- f. Have passed the Internship,
- g. Have completed the Undergraduate Thesis examination and passed, and submitted the Undergraduate Thesis book in accordance with applicable requirements.

### **6.7.4 Judicium**

Determination of graduation is carried out in the judiciary meeting which is held following the current year's academic calendar. Students are determined "PASS" if they have submitted the Minutes of Improvement (BAP) to the Academic Subdivision and Undergraduate Thesis in the form of Hard Copy and proof of acceptance of scientific articles by journal editors. The BAP process is regulated in the Undergraduate Thesis Guidebook.



## **6.8 OTHERS**

1. Incomplete Value (TL)
  - a. TL grades are given to students who have not received one or more grades in the programmed Subjects. If there is a TL value, the final semester IP cannot be calculated, and only temporary IP can be calculated.
  - b. TL grades must be completed no later than 2 (two) weeks after graduation. If until the specified time limit it has not been resolved and the delay is caused by the student, the student is declared not to have taken the Subject.
  - c. Judicium for students with TL grades is postponed for 3 (three) weeks.
2. Students must improve the grade E of a Subject on the condition that they must repeat and attend lectures in the appropriate semester and be treated as new participants, with a note: the credit load of the Subject that gets an E grade is calculated 2x (twice) of the credit weight of the Subject or follow the intermediate semester program.
3. Extension of the study period can be proposed a maximum of 2 (two) times with 1 (one) semester each.
4. Students are proposed to the Chancellor to be declared study failures and are not entitled to use a bachelor's degree if two study periods minus 1 (one) year have not passed. Evaluation is carried out through the final evaluation meeting of the study period. The decision of the final evaluation meeting of the study period is based on the predetermined graduation requirements. The end of study period evaluation meeting is chaired by the Dean and attended by the Vice Dean I, Head of Department, Study Program Coordinator, Head of Academic Subdivision, and Academic Subdivision Staff.

**CHAPTER VII**  
**LIST OF SUBJECT OFFERED FOR THE BACHELOR**  
**PROGRAM OF PUBLIC HEALTH IN THE ACADEMIC**  
**YEAR 2022/2023**

**SEMESTER 1**

No	Code	Subject Name	Subject Category	Credits
1	AGB101	Buddhism I	WI	2
	AGC101	Confucianism I		
	AGH101	Hinduism I		
	AGI101	Islam I		
	AGK101	Catholicism I		
	AGP101	Protestantism I		
2	BAI101	Indonesian	WI	2
3	BIF113	Biomedical Science I	Wins	3
4	ETM101	Health Law and Ethics	WI	2
5	NOP103	Pancasila	WI	2
6	KMU101	Introduction to Public Health Science	Wins	2
7	NOP104	Civics	WI	2
8	SIP107	Data and Literature	WI	2
9	KMU103	Health Communication and Basic Health Service	WI	2
<b>Total credits for semester 1</b>				<b>19</b>

## SEMESTER 2

No	Code	Subject Name	Subject Category	Credits
1	KME201	Principles of Epidemiology	Wins	2
2	KMA101	Health Administration and Policy	Wins	2
3	KMD104	Population Studies	Wins	2
4	BIF114	Biomedical Science II	WIns	3
5	EDM305	Health Promotion and Education	WIns	2
6	SOS320	Medical Sociology and Anthropology	Wins	3
7	PHP103	Logical and Critical Thinking	WI	2
8	KMU103	Communication and Self-Development	WI	2
9	MNM107	Introduction to Scientific Collaboration	WI	2
<b>Total credits for semester 2</b>				<b>20</b>

## SEMESTER 3

No	Code	Subject Name	Category	Credits
1	MAS111	Principles of Biostatistics	Wins	2
2	KME302	Epidemiology of Communicable Disease	Wins	2
3	SOK207	Public Health Communication	Wins	3
4	KMA205	Principle of Hospital and Community Health Center Administration	Wins	2
5	PSK204	Public Health Group Development	Wins	2
6	LKM206	Principles of Environmental Health	Wins	2
7	KMK217	Principles of Occupational Health and Safety	Wins	2
8	KMD105	Reproductive Health	Wins	2
9	NUM101	Principles of Nutrition Science	Wins	2
10	AGB401	Buddhism II	WI	2

	AGC401	Confucianism II		
	AGH401	Hinduism II		
	AGI401	Islam II		
	AGK401	Catholicism II		
	AGP401	Protestantism II		
<b>Total credits for semester 3</b>				<b>21</b>

#### SEMESTER 4

No	Code	Subject Name	Category	Credits
1	PSK205	Community Empowerment in Health I	WIns	2
2	SII310	Health Information Systems (HIS)	WIns	2
3	KME204	Public Health Surveillance (integrated)	WIns	3
4	MNM404	Human Resource Management and Productivity in Healthcare	WIns	2
5	KME303	Epidemiology of Non-Communicable Diseases	WIns	2
6	MNM309	Leadership and Thinking Systems in Public Health	WIns	2
7	LKM316	Environmental Quality Analysis	WIns	2
8	MAS233	Inferential Biostatistics	WIns	2
9	MNW302	Integrated Entrepreneurship	WIns	2
10	NUM301	Introduction to Public Health Nutrition	WIns	2
<b>Total credits for semester 4</b>				<b>21</b>

## SEMESTER 5

No	Code	Subject Name	Category	Credits
1	PNM405	Methodology of Quantitative and Qualitative Research	WIns	3
2	SOK326	Principles of Media Communication, Information, and Education	WIns	2
3	EKH301	Health Economics	WIns	3
4	KME419	Extreme Events and Disaster Management (Integrated)	WIns	2
5	KLM303	Fieldwork	WIns	6
6	MNS103	Public Health Program Planning and Evaluation (Integrated) (Practicum)	WIns	3
7	SIK302	Public Health Computer Applications (Practicum)	WIns	2
8	BAE115	English for Public Health	WIns	2
<b>Total credits for semester 5</b>				<b>23</b>

## SEMESTER 6

### SEMESTER 6 (MAJOR IN HEALTH ADMINISTRATION AND POLICY)

No	Code	Subject Name	Category	Credits
1	KNM401	Community Services	WI	3
2	MNK103	Health Financing and Budgeting	WIns	2
3	PSO306	Organization Development	WMin	2
4	MNS315	Healthcare Management Techniques and Tools	WMin	4
5	MNS316	Community Health Center Management	WMin	2
6	MNS317	Hospital Management	WMin	2
7	MNS310	Quality Management in Health Services	WMin	2

No	Code	Subject Name	Category	Credits
8	MNS311	Logistic Management for Medicine, Equipment, and Healthcare Facility	WMin	2
<b>Total credits for semester 6 for the Major in Health Administration and Policy</b>				<b>19</b>

### SEMESTER 6 (MAJOR IN BIOSTATISTICS AND POPULATION STUDIES)

No	Code	Subject Name	Category	Credits
1	KNM401	Community Services	WI	3
2	MNK103	Health Financing and Budgeting	WIns	2
3	MAS208	Parametric Biostatistics	WMin	3
4	MAS322	Biostatistics for Semiquantitative Data	WMin	2
5	MAS323	Biostatistics for Categorical Data	WMin	2
6	PNM406	Health Research	WMin	2
7	KMD312	Demographic Techniques	WMin	2
8	KMD305	Maternal Health and Safety	WMin	2
9	KMD316	Population Fertility and Family Planning	WMin	2
<b>Total credits for semester 6 for the Major in Biostatistics and Population Studies</b>				<b>20</b>

### SEMESTER 6 (MAJOR IN REPRODUCTIVE HEALTH AND MATERNAL AND CHILD HEALTH)

No	Code	Subject Name	Category	Credits
1	KNM401	Community Services	WI	3
2	MNK103	Health Financing and Budgeting	WIns	2
3	KMD303	Child Survival	WMin	2
4	KMD304	Adolescent Sexual and Reproductive Health	WMin	2
5	KMD305	Maternal Health and Safety	WMin	2

6	KMD306	Population Fertility and Family Planning	WMin	2
7	KMD307	Mortality	WMin	2
8	KMD313	Workers Sexual and Reproductive Health	WMin	2
9	KMD314	Elderly Sexual and Reproductive Health	WMin	2
<b>Total credits for semester 6 for the Major in Reproductive Health and Maternal and Child Health</b>				<b>19</b>

### SEMESTER 6 (MAJOR IN EPIDEMIOLOGY)

No	Code	Subject Name	Category	Credits
1	KNM401	Community Services	WI	3
2	MNK103	Health Financing and Budgeting	WIns	2
3	KME422	Health Measurement	WMin	2
4	KME426	Epidemiology of Prevention and Control of Cardiovascular Diseases and Strokes	WMin	3
5	KME417	Epidemiological Research	WMin	2
6	KME407	Epidemiology of Tropical Diseasee	WMin	3
7	KME420	Epidemiology of Accidents	WMin	2
8	KME403	Epidemiology of Cancers	WMin	3
<b>Total credits for semester 6 for the Major in Epidemiology</b>				<b>20</b>

### SEMESTER 6 (MAJOR IN NUTRITION)

No	Code	Subject Name	Category	Credits
1	KNM401	Community Services	WI	3
2	MNK103	Health Financing and Budgeting	WIns	2
3	NUM404	Nutrition (Practicum)	WMin	2
4	NUM304	Food Technology and Nutrition	WMin	2

5	EDM401	Nutrition Education	WMin	3
6	KME406	Epidemiology of Nutrition	WMin	2
7	NUM318	Urban Nutrition	WMin	2
8	NUM401	Food Safety	WMin	2
<b>Total credits for semester 6 for the Major in Nutrition</b>				<b>18</b>

### **SEMESTER 6 (MAJOR IN OCCUPATIONAL HEALTH AND SAFETY)**

No	Code	Subject Name	Category	Credits
1	KNM401	Community Services	WI	3
2	MNK103	Health Financing and Budgeting	WIns	2
3	KMK102	Occupational Safety	WMin	2
4	KMK101	Occupational Health	WMin	2
5	KMK214	Ergonomics and Work Physiology I	WMin	2
6	PSI307	Industrial Psychology	WMin	2
7	KMK106	Industrial Hygiene I	WMin	2
8	FAT304	Industrial Toxicology I	WMin	2
<b>Total credits for semester 6 for the Major in Occupational Health and Safety</b>				

### **SEMESTER 6 (MAJOR IN ENVIRONMENTAL HEALTH)**

No	Code	Subject Name	Category	Credits
1	KNM401	Community Services	WI	3
2	MNK103	Health Financing and Budgeting	WIns	2
3	NUM102	Food Sanitation	WMin	2
4	LKM406	Control of Zoonotic Diseases	WMin	2
5	LKM314	Field Instrumentation and Observation (Practicum)	WMin	3



6	LKM313	Water Management	WMin	2
7	LKM312	Waste Management	WMin	2
8	LKM309	Vector and Rodent Control	WMin	2
<b>Total credits for semester 6 for the Major in Environmental Health</b>				<b>18</b>

### SEMESTER 6 (MAJOR IN HEALTH PROMOTION AND BEHAVIORAL SCIENCE)

No	Code	Subject Name	Category	Credits
1	KNM401	Community Services	WI	3
2	MNK103	Health Financing and Budgeting	WIns	2
3	MNS312	Health Promotion Indicators and Measurements	WMin	2
4	SOK325	Health Promotion Media Development	WMin	3
5	PSC304	Health Psychology	WMin	2
6	EDM306	Health Promotion in Institutions (Practicum)	WMin	3
7	MNS313	Health Promotion Programs	WMin	3
<b>Total credits for semester 6 for the Major in Health Promotion and Behavioral Science</b>				<b>18</b>

### SEMESTER 7

No	Code	Subject Name	Category	Credits
1		Electives 1	WIns	2
			<b>Total</b>	<b>6</b>

Description :

- Elective Subjects are selected from other Majors' Subjects

**SEMESTER 7 (MAJOR IN HEALTH ADMINISTRATION AND POLICY)**

No	Code	Subject Name	Category	Credits
1	PNM496	Research Methodology (Application and Practicum)	WI	3
2	MNP309	Health Services Marketing	WMin	2
3	MNS407	Health Insurance	WMin	2
4	SII407	Health and Hospital Management Information System	WMin	2
5	KMA404	Health Policy Analysis	WMin	3
6	MNS408	Strategic Management in Healthcare	WMin	2
<b>Total credits for semester 7 for the Major in Health Administration and Policy</b>				<b>14</b>

**SEMESTER 7 (MAJOR IN BIostatISTICS AND POPULATION STUDIES)**

No	Code	Subject Name	Category	Credits
1	PNM496	Research Methodology (Application and Practicum)	WI	3
2	SIK304	Biostatistics Computer Application (Practicum)	WMin	2
3	SIK303	Population Analysis Computer Applications (Practicum)	WMin	2
4	PNM407	Sampling Techniques and Size Determination	WMin	2
5	SII314	Introduction to Geographic Information Systems	WMin	2
6	MAS623	Basics in Multivariate Analysis	WMin	2
<b>Total credits for semester 7 for the Major In Biostatistics and Population Studies</b>				<b>13</b>

**SEMESTER 7 (MAJOR IN REPRODUCTIVE HEALTH AND MATERNAL AND CHILD HEALTH)**

No	Code	Subject Name	Category	Credits
1	PNM496	Research Methodology (Application and Practicum)	WI	3
2	SII314	Introduction to Geographic Information System	WMin	2
3	KMD308	Sex, Gender, dan Sexuality	WMin	2
4	KMD310	Techniques of Fertility, Family Planning, and Mortality Measurement	WMin	3
5	SIK303	Population Analysis Computer Applications (Practicum)	WMin	2
6	PNM409	Sampling Methods for Population Studies	WMin	2
<b>Total credits for semester 7 for the Major in Reproductive Health and Maternal and Child Health</b>				<b>14</b>

**SEMESTER 7 (MAJOR IN EPIDEMIOLOGY)**

No	Code	Subject Name	Category	Credits
1	PNM496	Research Methodology (Application and Practicum)	WI	3
2	KME423	Risk and Disease Mapping	WMin	2
3	KME301	Epidemiology of Vaccine-Preventable Diseases	WMin	3
4	KME413	Data Management in Epidemiology (Practicum)	WMin	2
5	KME414	Health Screening	WMin	3
<b>Subtotal credits for semester 7 the Major in Epidemiology</b>				<b>13</b>

**SEMESTER 7 (MAJOR IN HEALTH NUTRITION)**

No	Code	Subject Name	Category	Credits
1	PNM496	Research Methodology (Application and Practicum)	WI	3
2	NUM302	Nutrition and Food Service Mangement	WMin	2
3	NUM307	Current Nutrition Science and Technology	WMin	2
4	NUM216	Food Security	WMin	2
5	NUM209	Food and Nutrition Economics	WMin	2
6	NUM311	Nutrition and Productivity	WMin	2
7	SOA103	Nutritional Anthropology	WMin	2
<b>Subtotal credits for semester 7 for the Major in Nutrition</b>				<b>15</b>

**SEMESTER 7 (MAJOR IN OCCUPATIONAL HEALTH AND SAFETY)**

No	Code	Subject Name	Category	Credits
1	PNM496	Research Methodology (Application and Practicum)	WI	3
2	FAT305	Industrial Toxicology II	WMin	2
3	KMK202	Occupational Diseases	WMin	2
4	KMK310	Industrial Hygiene II	WMin	3
5	KMK312	Occupational Health and Safety Risk Management	WMin	2
6	KMK313	Occupational Health and Safety Implementation (Practicum)	WMin	2
7	KMK306	Ergonomics and Work Physiology II	WMin	2
<b>Total credits for semester 7 for the Major in Occupational Health and Safety</b>				<b>16</b>

**SEMESTER 7 (MAJOR IN ENVIRONMENTAL HEALTH)**

No	Code	Subject Name	Category	Credits
1	PNM496	Research Methodology (Application and Practicum)	WI	3
2	LKM308	Environmental Sanitation	WMin	3
3	LKM310	Environmental Management	WMin	2
4	MNS404	Environmental Health Risk assessment	WMin	3
5	KME425	Environmental Health Aspects in Disaster Management	WMin	2
6	FAT206	Environmental Toxicology	WMin	2
<b>Total credits for semester 7 for the Major in Environmental Health</b>				<b>15</b>

**SEMESTER 7 (MAJOR IN HEALTH PROMOTION AND BEHAVIORAL SCIENCE)**

No	Code	Subject Name	Category	Credits
1	PNM496	Research Methodology (Application and Practicum)	WI	3
2	SOK408	Integrated Health Marketing Communication	WMin	2
3	EDM402	Health Politics	WMin	2
4	PSI407	Organizational Behavior	WMin	2
5	PSK303	Community Empowerment in Health II	WMin	3
6	SOS402	Social Determinants of Health	WMin	3
<b>Total credits for semester 7 for the Major in Health Promotion and Behavioral Science</b>				<b>15</b>

**SEMESTER 8**

1	PNM499	Undergraduate Thesis	WMin	4
2	KKM401	Internships	WMin	3
<b>Total credits for semester 8</b>				<b>7</b>

**CHAPTER VIII**  
**LIST OF SUBJECT OFFERED FOR THE BACHELOR**  
**PROGRAM OF NUTRITION IN THE ACADEMIC YEAR**  
**2022/2023**

**SEMESTER 1**

No	Code	Subject Name	Category	Credits
1	AGB101	Buddhism I	WI	2
	AGC101	Confucianism I		
	AGH101	Hinduism I		
	AGI101	Islam I		
	AGK101	Catholicism I		
	AGP101	Protestantism I		
2	NOP102	Pancasila	WI	2
3	NOP103	Civics	Wins	3
4	BAI101	Indonesian	WI	2
5	SIP107	Data and Literature	WIns	2
6	ETM101	Health Law and Ethics	Wins	2
7	KMU103	Basic Communication and Health Services	WI	2
8	MAT108	Mathematics	WI	2
9	KID109	Organic and Inorganic Chemistry	WI	2
<b>Total credits for semester 1</b>				<b>19</b>

## SEMESTER 2

No	Code	Subject Name	Category	Credits
1	BIF104	Physiology	WI	4
2	PHP103	Logical and Critical Thinking	Wins	2
3	MNM107	Introduction to Scientific Collaboration	Wins	2
4	MNM106	Communication and Self-Development	WI	2
5	BIA102	Anatomy	WI	2
6	BID107	Introduction to Human Biology	WI	2
7	MNU401	Principles of Management	WI	2
8	BIK102	Introduction to Biochemistry	WI	2
9	PSG105	Psychology	WI	2
<b>Total credits for semester 2</b>				<b>20</b>

## SEMESTER 3

No	Code	Subject Name	Category	Credits
1	NUM204	Principles of Culinary	WI	2
2	NUM221	Principles of Culinary (Practicum)	WI	1
3	NUM222	Food Sciences and Technology	WI	2
4	NUM223	Food Sciences and Technology (Practicum)	WI	1
5	NUM224	Food Microbiology	WI	2
6	NUM225	Food Microbiology (Practicum)	WI	1
7	NUM226	Nutrition Analysis	WI	2
8	NUM101	Principles of Nutrition Science	WI	2
9	NUM 216	Food Security	WI	2
10	AGB401 AGC401 AGH401	Religion II	Wins	2



No	Code	Subject Name	Category	Credits
	AGI401 AGK401 AGP401			
11	SOS236	Sociology of Nutrition	WIns	2
12	SOA103	Anthropology of Nutrition	Wins	2
<b>Total credits for semester 3</b>				<b>21</b>

#### SEMESTER 4

No	Code	Subject Name	Category	Credits
1	NUM227	Food Formulation	WI	2
2	NUM215	Food Formulation (Practicum)	WI	1
3	NUM302	Management of Industrial Food and Nutrition Services	WI	2
4	NUM329	Management of Industrial Food and Nutrition Services (Practicum)	WI	1
5	KLM304	Management of Industrial Food and Nutrition Services Fieldwork	WI	2
6	NUM105	Nutrition in the Life Cycle	WI	2
7	NUM229	Nutrition in the Life Cycle (Practicum)	WI	1
8	NUM406	Nutritional Assessment	WI	2
9	NUM402	Nutritional Assessment (Practicum)	WI	2
10	NUM231	Food and Nutrition Entrepreneurship (Practicum)	WIns	2
11	NUM211	Food Safety	WI	2
12	NUM103	Energy and Macronutrient Metabolism	WI	2
13	NUM104	Micronutrient Metabolism	WI	2
<b>Total credits for semester 4</b>				<b>23</b>

## SEMESTER 5

No	Code	Subject Name	Category	Credits
1	NUM321	Foods Consumption Survey	WI	2
2	NUM322	Foods Consumption Survey (Practicum)	WI	1
3	NUM203	Nutrition Education	WI	2
4	NUM323	Nutrition Education (Practicum)	WI	1
5	MAS210	Statistics	WI	2
6	MAS115	Statistics (Practicum)	WI	1
7	NUM306	Nutritional Computing (Practicum)	WI	2
8	BIF301	Pathophysiology for Infectious Diseases and Malnutrition	WI	2
9	BIF302	Pathophysiology for Degenerative Diseases	WI	2
10	NUM324	Standardized Nutrition Care Process (NCP)	WI	2
11	NUF302	Pharmacology and Food-Drug Interactions	WI	2
12	NUM314	Sports Nutrition	WI	2
13		Electives I	Electives	2
	NUM209	Food and Nutrition Economics		
	NUM311	Nutrition and Productivity		
	NUM310	Nutrition and HIV/ AIDS		
	NUM313	Emergency Nutrition		
	NUM312	Industrial Nutrition		
<b>Total credits for semester 5</b>				<b>23</b>

**SEMESTER 6**

No	Code	Subject Name	Category	Credits
1	NUD302	Dietetics for Infectious Diseases and Deficiency	WI	2
2	NUD303	Dietetics for Infectious Diseases and Deficiency (Practicum)	WI	1
3	NUD304	Dietetics for Degenerative Diseases	WI	2
4	NUD305	Dietetics for Degenerative Diseases (Practicum)	WI	1
5	NUM202	Nutritional Counseling	WI	3
6	PNM491	Research Methodology	WI	2
7	NUM318	Urban Nutrition	WI	2
8	NUM207	Nutrition Programs and Evaluation	WI	2
9	NUM210	Epidemiology of Nutrition	WI	2
10	BAE110	English	WI	2
11	KNM401	Community Services	WI	3
12	NUM315 PSO403 NUM326 NUM327	Electives II Vegetarian Nutrition Consumer Behavior Geriatric Nutrition Functional Food	Pilihan	2
<b>Total credits for semester 6</b>				<b>24</b>

**SEMESTER 7**

No	Code	Subject Name	Category	Credits
1	NUM307	Current Nutritional Science and Technology	WI	2
2	PNM498	Undergraduate Thesis Proposal	WI	2
3	KLM402	Public Health Nutrition Fieldwork	WI	4
4	KLM403	Dietetics Fieldwork	WI	4
<b>Total credits for semester 7</b>				<b>12</b>

**SEMESTER 8**

No	Code	Subject Name	Category	Credits
1	PNM499	Undergraduate Thesis	WI	4
<b>Total credits for semester 8</b>				<b>4</b>

# **CHAPTER IX**

## **SUBJECT DESCRIPTION FOR THE BACHELOR PROGRAM OF PUBLIC HEALTH**

### **A. SEMESTER I**

AGI101 (Islam), AGP101 (Protestantism), AGK101 (Catholicism), AGH101 (Hinduism), AGB101 (Buddhism), dan AGC101 (Confucianism)

Religion I – 2 Credits

This Subject discusses religious rules and laws in general that are related to daily life and character building.

BAI101 Indonesian – 2 Credits

This Subject discusses the Indonesian language's history, position, and function and writing on the Indonesian Spelling System General Guidelines (Pedoman Umum Ejaan Bahasa Indonesia or PUEBI) in forming effective sentences and elaborate paragraphs. This Subject also reviews scientific article writing, referencing techniques, and scientific presentations.

BIF113 Biomedical Science I – 3 Credits

This Subject uses lectures, discussions, and presentations as teaching methods. The materials in this lecture are the musculoskeletal system, skin system and its accessories, cardiovascular system, respiratory system, blood and lymph system, digestive system, urinary system, hearing and vision system, reproductive system, endocrine system, and immune system.

ETM101 Health Law and Ethics – 2 Credits

This Subject discusses human rights (HAM), rights, and obligations; bioethics in health services and research; ethics, academic ethics, and health law and ethics; health code of ethics; health care ethics; informed consent in health care; malpractices; and professionalism and professional oath.

NOP103 Pancasila – 2 Credits

This Subject discusses the study of national history and the role of Pancasila as the national principles and the state ideology. It also confers about Pancasila's philosophical and ethical systems, its values as the basis of knowledge development, the precepts' meanings, and its implementation in nation and state lives.

KMU101 Introduction to Public Health Science – 2 Credits

This Subject covers the history of public health science; public health scopes; John Snow's epidemiological approach; declaration of ALMA-ATA; public

health development in the 21st century; and holistic public health science approach through the case studies of malnutrition in NTT, pre-marital sex, dengue fever, tuberculosis, HIV/AIDS, and stroke.

**NOP101**      Civics – 2 Credits  
This Subject discusses civics as an orientation for enhancing the character of Indonesia as a nation, national identity, the state and the constitution, relations between the state and citizens, Indonesian democracy and democratic education in Indonesia, the state of law and human rights, Indonesia's geopolitics (archipelago insight) and geostrategy (national defense), national integrity, state defense, and anti-corruption education with the axiological basis for student behaviors in family, society, nation, and state lives.

**SIP107**      Data dan Literature – 2 Credits  
This Subject encourages students to interpret and utilize data appropriately and responsibly to formulate solid and coherent arguments, evaluate the quality of others' ideas, and make decisions. Students are encouraged to search, read, evaluate, and sort claims or information written in scientific literature. In this Subject, students can also practice organizing scientific references utilizing referencing management software.

**KMU103**      Health Communication and Basic Health Services – 2 Credits  
This Subject reviews the basic concept of building altruism and motivation to grow empathy as prospective health professionals in solving health problems from community behavior and cultural perspectives. The holistic approach to health services, effective communication, and counseling are also discussed in this Subject. It also confers basic empathy that every prospective health professional must have and the implementation of therapeutic communication. Further discussions comprise the concept of health and illness in the community; current public health issues, their causes, and solutions in comprehensive, promotive, preventive, curative, and rehabilitative approaches; and the development of health promotion and several healthcare settings.

## **B. SEMESTER 2**

**KME201**      Principles of Epidemiology – 2 Credits  
This Subject discusses the description and scope of epidemiology, casual concepts, the natural history of diseases, prevention concepts, frequency measures, standardization, screening, disease patterns, and types of epidemiological research.

**KMA101**      Health Administration and Policy – 2 Credits

The materials of this Subject review the conceptual study of health administration and policy in public health. The scopes of both disciplines are elaborated more in the four main topics: administrative, organizational, management, and policy sciences. The four main topics are further reviewed and divided into several appropriate subtopics for discussion: definition, scope, development, and relevance in the health sector.

- KMD104      Population Studies – 2 Credits  
This Subject discusses the concept of population science; population data sources; demographic transition theory; composition, distribution, growth, and population pyramid; fertility, mortality, mobility, and employment theories; child protection; theory of marriage and divorce (nuptiality); and family formation.
- EDM305      Health Promotion and Education – 2 Credits  
This Subject discusses the concept of health paradigm, the history of health promotion development, basic concepts of health promotion (definition, principles, and ethics), health promotion strategies (enable, advocate, and mediate), behavioral theories related to health promotion, and key action areas and settings in health promotion.
- BIF114      Biomedical Sciences II – 3 Credits  
This Subject reviews the definition of bacteria, parasites, and viruses; entry mechanisms of pathogenic microorganisms into the body; *Mycobacterium tuberculosis* and *Mycobacterium leprae*; roles of intestinal protozoa and arthropods in disease transmission; *Escherichia coli* and *Salmonella typhi*; *Corynebacterium diphtheriae*; *Yersinia pestis* and *Leptospira sp.*; rabies; *Bacillus anthracis* and *coccus bacteria*; measles and polio; *Plasmodium sp.*, *Toxoplasma gondii*; helminths, HIV and hepatitis viruses, and avian and swine influenza viruses.
- SOS320      Health Sociology and Anthropology – 3 Credits  
This Subject discusses the sociology of health, including the definition of sociology, status and roles, social interactions, sociometric practices, social inequality, groups and organizations, social stratifications, social changes, concepts of health and illness, and health problems (such as globalization and health, gender and health), and the anthropology of health, comprising the definition of anthropology, roles of anthropology in public health, the definition of culture, 3 (three) cultural forms, 7 (seven) cultural universals, theories of anthropology, cultural ecology, functionalism of kinship system, sociocultural aspects in health behaviors, cultural factors that influence health services, and cultural and health problems in Indonesia.
- PHP103      Logical and Critical Thinking – 2 Credits  
This Subject studies fundamental philosophical questions regarding the

essence of science, how science works, methods of acquiring science, and implication of modern scientific developments. This Subject also aims to analyze the position of science in philosophy and the role of philosophy in the debates on the basic rules of modern science. In more detail, this Subject contains three main themes: first, exploring the differences between science and common sense, including the characteristics and methods of acquisition, which become the subjects of study in the philosophy of science. Second, analyzing the major transition in the philosophy of science tradition, namely falsification (Karl Raimund Popper) and paradigm shift or scientific revolutions (Thomas Kuhn). Third, reviewing classical debates in the philosophy of science, including the argumentation on whether science can wholly explain reality, how historical contextuality influences the development of science, and how science has succeeded (and failed) in transforming human civilization. Fourth, involving students to appreciate the practical implications of the philosophy of science to various modern research methodologies.

**MNM107** Introduction to Scientific Collaboration – 2 Credits  
This Subject discusses the motivation for building collaboration and cooperation, the concept of interprofessional collaboration in education, the basic idea of leadership and decision-making, interdisciplinary communication and collaboration, collaborative communication, the notion of community, implementation of collaboration in a community, project-based learning of interprofessional collaboration in education, and community project-based understanding of interprofessional collaboration in education.

**KMU103** Communication and Self-Development – 2 Credits  
This Subject offers the students insight and opportunities to explore their potential to develop and increase their capacity through collaboration by coaching activities in the Student Activity Unit (UKM) and other student organization activities.

### **C. SEMESTER 3**

**MAS111** Principles of Biostatistics – 2 Credits  
This Subject reviews the definition, scopes, and roles of statistics; data and data scales; concepts and functions of descriptive statistics, population, and samples; central tendency, statistical diversity, and statistical measures of position; data presentation; the concept of inferential statistics and errors and the relationship between descriptive and inferential statistics; the concept and principles of probability; discrete and continuous probability distributions; sample distributions; concept, steps, and testing a Undergraduate Thesis; and estimation.



- KME302      Epidemiology of Communicable Diseases – 2 Credits  
 This Subject discusses the magnitude of communicable disease issues, their distribution through the epidemiological approach, determinants and risk factors, and preventing and controlling aspects of communicable diseases. The discussion focuses on controlling and preventing communicable diseases and the basic pathogenic mechanisms of the selected communicable diseases, which are currently huge problems in public health. This Subject is conveyed through laboratory sessions and lectures in class.
- SOK207      Public Health Communication – 3 Credits  
 This Subject discusses the definition, concepts, and principles of health communication; communication in health promotion; effective communication at the intrapersonal, interpersonal, group, and mass levels; health communication and behavior changes; theories in health communication; health communication in the culture and psychosocial; health communication planning and its implementation; and health communication practices via offline and online in social media
- KMA205      Principles of Hospital and Community Health Center Administration – 2 Credits  
 This Subject reviews the basic concepts of hospitals and community health centers, including the definition, the position in the health system and healthcare system, the primary duties and functions, and the scopes. Moreover, the topic of hospital administration mainly discusses hospital licensing, classification, characteristics of services (covering organizational and consumer characteristics), organization and governance, statute (bylaws), minimum service standards and operational procedures, and quality and safety programs. Meanwhile, the topic of community health center administration specifically reviews the planning, performance assessment, referral system, and mini-workshops.
- PSK204      Public Health Group Development – 2 Credits  
 This Subject discusses the definition of group development in public health, including group identity building, showing expressions (of feelings, creativities, preventing group breakdown, and building effective communication), skill development (passion and coordination system), increasing productivity, and commitment building about health through public health group development games.
- LKM206      Principles of Environmental Health – 2 Credits  
 This Subject discusses the definition and concepts of environmental health ecology, hygiene and sanitation, health aspects and provision of clean water, liquid and solid waste management, environmental pollution (air, water, and soil), vector control, and food and beverage hygiene and sanitation.

**KMK217** Principles of Occupational Health and Safety – 2 Credits  
This Subject reviews the laws and regulations in OHS; the history and scopes of OHS; differences between public health, Occupational Health and Industrial Hygiene (OHIH), and five levels of disease and accident prevention; OHS and the National Advisory Committee of Occupational Safety and Health (NACOSH) programs; factors influencing workers' health; and health problems due to chemical or solvent, biological, and physical work environment.

**KMD105** Community Reproductive Health – 2 Credits  
This Subject discusses the concepts of community reproductive health; the human reproductive system and its diseases; women's health; safe motherhood I and II; family planning; abortion; child survival; adolescents, workers, and elderly reproductive health; sexuality and reproductive health; and the quality of reproductive health care and services.

**NUM101** Principles of Nutrition Science – 2 Credits  
This Subject discusses the basic concept of nutritional science as the fundamental understanding of nutritional science and nutritional biochemistry that will be studied further in the following semester. The discussion covers the history of nutritional science; the definition and scope of nutritional science; the relation between food and health; types, functions, and sources of dietary needs; and the basic concept of the recommended Nutrient Adequacy Ratio (NAR).

**AGI401** (Islam), **AGP401** (Protestantism), **AGK401** (Catholicism), **AGH401** (Hinduism), **AGB401** (Buddhism), and **AGC401** (Confucianism)

Religion II – 2 Credits

This Subject discusses the application of religious rules and laws related to public health.

#### **D. SEMESTER 4**

**PSK205** Community Empowerment in Health I – 2 Credits  
This Subject reviews the development of public health in Indonesia; the definition of community empowerment; domains, elements, and frameworks of empowerment; social capital and community empowerment; the concept of participation; directive and non-directive approaches; models in community empowerment; and steps in community empowerment activities.

**SII310** Health Information Systems (HIS) – 2 Credits  
This Subject discusses the definition and concepts of Health Information Systems (HIS), HIS data management, HIS in Indonesia, HIS utilization in surveillance, health indicators, medical records, disease classification

systems, database development, health information network system, and introduction to Geographic Information System (GIS).

- KME204**      **Public Health Surveillance – 3 Credits**  
This Subject discusses the concept and implementation of public health surveillance systems in the fields of communicable diseases, non-communicable diseases, nutrition, environmental health, conditional health, behavioral health, and OHS. Furthermore, there are materials regarding the International Health Regulations as a form of surveillance implementation on diseases that have the potential to be transmitted among countries.
- MNM404**      **Human Resource Management and Productivity in Healthcare — 2 Credits**  
This Subject reviews Human Resource Management, including human resource planning, human resource development as the main asset in healthcare systems, and human resource productivity and performance assessment
- KME303**      **Epidemiology of Non-Communicable Diseases – 2 Credits**  
This Subject discusses the prevention of non-communicable diseases through the epidemiological approach; epidemiological problems of non-communicable diseases; preventive aspects in the epidemiology of non-communicable diseases; and epidemiology of cancer, cardiovascular and renal diseases, diabetes mellitus, cataracts, mental health, arthritis and rheumatism and bronchial asthma.
- MNM309**      **Leadership and Thinking Systems in Public Health – 2 Credits**  
This study discusses the basic concept of leadership, differences between leaders and managers, duties and roles of leaders, leadership theories and styles, transformational leadership, and leadership effectiveness and development.  
Moreover, there are discussions about the basic concept of organizational culture, including the functions and types, the forming process, and leaders in the attempt to maintain and maximize organizational culture.
- LKM316**      **Environmental Quality Analysis – 2 Credits**  
This Subject reviews the introduction of environmental quality and methods and sampling techniques for physical, chemical, and biological analyses of water, air, and food.
- MAS233**      **Inferential Biostatistics – 2 Credits**  
This Subject reviews the concept of inferential biostatistics tests; principles and applications of the one-sample t-test, two-sample t-test, one-way ANOVA, and multiple comparison tests (MCTs); concepts and applications of simple linear correlation and simple linear regression; and categorical data tests including the chi-squared test and the Fisher's test for independence.

- MNW302      Integrated Entrepreneurship – 2 Credits  
 This Subject discusses familiarity and examples of business applications that can be created independently, as well as the guidelines and steps in creating a particular business.
- NUM301      Introduction to Public Health Nutrition – 2 Credits  
 This Subject lets the students study the concept of nutritional science, its relation to public health, and five major nutrition problems in Indonesia, including protein and vitamin A deficiencies, anemia, iodine deficiency disorders, and obesity. Furthermore, this Subject also discusses factors related to those primary nutrition problems and the relationship between nutrition and infectious diseases or degenerative diseases.

#### **E. SEMESTER 5**

- PNM405      Methodology of Quantitative and Qualitative Research – 3 Credits  
 This Subject reviews the nature of social reality or facts of quantitative research, dimensions and types of quantitative research, research processes I—IV, the social meaning nature of qualitative research, the qualitative research paradigm, qualitative research types, research process I and II, techniques of data collection and data analysis of qualitative research.
- SOK326      Basics in Media Communication, Information, and Education – 2 Credits  
 This Subject discusses the process of communication and behavior changes, the diffusion of innovations, the design of effective health messages, health communication planning (p-process), and qualitative and quantitative research on health communication.
- EKH301      Health Economics – 3 Credits  
 This Subject analyzes health programs from the micro dimensions and their relation to economic (macro dimension) and health sector developments.
- KME419      Extreme Events and Disaster Management (Integrated) – 2 Credits  
 This Subject discusses two main points, that is disaster management and extreme events. Disaster management includes the definition of disaster, disaster preparedness, identification of community needs during a disaster, disaster management, and surveillance after a disaster. Meanwhile, extreme events management covers the definition of extreme events, investigation preparation, description of extreme events, extreme events management, and early alert of extreme events.

- KLM303      Fieldwork – 6 Credits  
 This Subject discusses the introduction, comprehension, and appreciation of community life and environment aspects in the fieldwork area, public health problems, ways of solving health problems, and improvement of public health programs. Moreover, this Subject reviews the governance, health organizations, and priority programs in community health services. The results of this Subject are presented in the form of seminars and reports. Students also diagnose public health problems, offer alternative solutions, and develop, implement, and assess health programs that become the priority (see the Fieldwork Handbook).
- MNS103      Public Health Program Planning and Evaluation (Integrated) (Practicum) – 3 Credits  
 This Subject discusses the theories, methods, techniques, planning software, and evaluation of public health programs.
- SIK302      Public Health Computer Applications (Practicum) – 2 Credits  
 This Subject studies the introduction to Statistical Package for Social Sciences (SPSS) software program; the operation of SPSS in Windows; concepts of the data editor and data tabulation, descriptive data exploration, and data transformation; and the description of population differences using descriptive statistics, one-way ANOVA, free-sample t-test, paired-sample t-test, chi-square, correlation test, linear regression, simple logistic regression, and multiple logistic regression.
- BAE115      English for Public Health – 2 Credits  
 This Subject discusses the introduction to English for academic purposes, grammar, vocabulary, and pronunciation. It conveys the strategies for various English skills in academic contexts. The reading and listening strategies in educational contexts cover the comprehension of the content and structure of verbal and written information. The reading and listening strategies are also employed for different purposes, such as input for completing an assignment, developing specific reading or listening skills, and using a dictionary to obtain lexical, phonological, and orthographical information. Meanwhile, written academic communication is delivered to identify and write standard functions in written academic subject; take notes from reading and listening inputs; understand and apply principles of academic text structure; develop paraphrasing, summarizing, and referencing skills; improve editing and proofreading skills; and achieve appropriate tone and style in academic writing. Besides that, spoken academic communication is conveyed for recognizing the purposes of and differences between spoken and written communication in English educational contexts, identifying and practicing interactional and linguistic aspects of participation in seminar discussions, discussing issues requiring the development and application of creative and critical thinking, and preparing and delivering oral presentations.

## **F. SEMESTER 6**

- KNM401**      Community Services – 3 Credits  
Community Services or Community Outreach Programs (KKM-BBM) discusses the philosophy and basic concepts of community services, implementation of appropriate technology in rural areas, roles of students serving community services in rural development, identification of problems faced by rural communities, participation of rural communities in the development, communication with rural communities, and village and Family Empowerment Post (Posdaya) developments.
- EMNK103**    Health Financing and Budgeting – 2 Credits  
This Subject reviews the budgeting mechanisms in the health sector, from budgeting preparation to evaluating budgeting program performances.

### **1. MAJOR IN HEALTH ADMINISTRATION AND POLICY**

- PSO306**      Organization Development – 2 Credits  
This Subject studies world health reform, particularly in Indonesia and several other countries, based on the history of organization development, public social and political domains, and analysis of problems in every health organizational system. It also discusses the health service system in different countries and their social and political systems. The discussion is based on the history of health service system development, the public domain, the socio-economic system, the adopted politics, the system's influence on the providers' and consumers' behavior, and the analysis of issues in the developed health service systems.
- MNS315**      Healthcare Management Techniques and Tools – 4 Credits  
This Subject reviews the SWOT analysis, Six Sigma, Lean, Theory of Constraints (ToC), the Workload Indicators of Staffing Needs (WISN), the European Foundation for Quality Management (EFQM), Program Evaluation and Review Technique (PERT) and Critical Path Method (CPM), Collaborative Requirements Development Methodology (CRDM) and Case flow, House of Quality, Material Requirements Planning (MRP), Forecasting, Bullwhip Effect, District Health Account (DHA) and Provincial Health Account (PHA), and balanced scorecard (BSC).
- MNS316**      Community Health Center Management – 2 Credits  
This Subject discusses certain studies regarding community health centers, such as their roles and position in health development, innovative program development, service excellence, and their relationships with the stakeholders.

- MNS317      Hospital Management – 2 Credits  
This Subject examines the issues in health services, particularly in hospitals and community health centers. There are also several hospital studies, such as management of hospital service processes, innovative program development, implementation of hospital technical rules, relationships between hospital and the stakeholders, and analysis of numerous case studies in hospitals.
- MNS304      Quality Management in Health Services –2 Credits  
This Subject studies the concept of quality management in health services, the quality cycle, and diverse applicable methods to ensure the quality of health services.
- MNS311      Logistic Management for Medicine, Equipment, and Healthcare Facility – 2 Credits  
This Subject allows students to get familiar with the methods and operational approaches in the logistic management for medicine and health equipment and the planning concept and evaluation of the provision of health facilities.

## **2. MAJOR IN BIostatISTICS AND POPULATION STUDIES**

- MAS208      Parametric Biostatistics – 3 Credits  
This Subject discusses the concepts of parametric biostatistics tests, principles and applications of one-way and two-way ANOVA, concepts and applications of multiple linear regression, assumption of linear regression and the alternative if there are violations of assumptions, and principles and applications of time series and trends.
- MAS322      Biostatistics for Semiquantitative Data – 2 Credits  
This Subject studies the analysis of health data with the biostatistical concepts for semiquantitative data, correlation tests (including Spearman's, Kendall's Tau, and Kendall's concordance rank correlations), and difference tests (comprising Kolmogorov-Smirnov, Sign, Wilcoxon signed-rank, Wilcoxon Man-Whitney, median, Kruskal-Wallis, and Friedman tests).
- MAS323      Biostatistics for Categorical Data – 2 Credits  
This Subject reviews the analysis of health data with the biostatistical concepts for categorical data, categorical data tests (chi-square, Fisher's exact, McNemar's, and Cochran-Mantel-Haenzel tests), association tests (Cramer's, Gamma, Kappa, and Contingency coefficients), logistic regression (simple logistic regression, multiple logistic regression, and logistic regression modeling), and linear logistic.
- PNM406      Health Research Design – 2 Credits  
This Subject discusses the observational research design using the cross-

sectional, case-control, and cohort techniques; the pre-experiment research design; and the experimental research designs with quasi-experiment, true experiments, and statistical experiments.

KMD312 Demographic Techniques – 2 Credits  
This Subject allows the students to study various basic population measurements; measurement failures; measurement methods of fertility analysis; measurement methods, calculation, and interpretation of mortality analysis; analysis and interpretation of life tables; migration flows and urbanization levels; and measurements and analyses of migration levels, population projections and interpolation, population and welfare indicators, employments, and nuptiality (marriages and divorces).

KMD316 Population Fertility and Family Planning – 2 Credits  
This Subject elaborates on the concepts and definitions of fertility and family planning, fertility determinants, the supply and demand for children, fertility regulations and their costs, the process of fertility decision-making, nuptiality and fertility (marriage, divorce, and family), social institutions and fertility, types and methods of contraception, side effects of contraception, contraceptive management (how to get, the correct way of use, goals, and targets of contraception), and population programs and family planning (Coaching for Families with Toddlers (BKB), Adolescents (BKR), and Elderly (BKL), and Self-Initiated Contraception (KB Mandiri)).

### **3. MAJOR IN REPRODUCTIVE HEALTH AND MATERNAL AND CHILD HEALTH**

KMD305 Maternal Health and Safety – 2 Credits  
This Subject discusses concepts and definitions of maternal health, safety, and mortality; theories of maternal mortality determinants; complications during pregnancy, labor, and childbirth; principles of strategies for reducing maternal mortality; maternal health and reproductive status affecting maternal health and safety; assurance of access to maternal health services; antenatal and childbirth cares and family planning; women's position in the family and society; the Making Pregnancy Safer and Safe Motherhood movements and strategies; *Sayang Ibu* (Mother's Love) movement and component strategies of maternal and child health; current issues; the Millennium Development Goals (MDGs); and the policies and programs of maternal health safety in Indonesia.

KMD303 Child Survival – 2 Credits  
This Subject discusses concepts and definitions of child mortality and survival; theories of child mortality determinants; temporary and cumulative morbidity; principles of strategies for reducing child mortality; maternal



factors that affect child survival; environmental contamination and accidental factors that affect child survival; management of childhood illnesses; contextual conditions that affect child survival, including socio-economic factors and women's status in the family and society; detection and disorders of child growth and development; indicators of reducing infant and child mortality; current issues; and the policies and programs of child survival in Indonesia.

- KMD304      Adolescent Sexual and Reproductive Health – 2 Credits  
This Subject reviews the introductions to adolescent health and sexual and reproductive health, sexual behavior, unwanted pregnancy, abortion, adolescent and drugs, pre-menstrual syndromes and HIV/AIDS, child marriage, adolescents in the future, and reproductive health services for adolescents.
- KMD306      Population Fertility and Family Planning – 2 Credits  
This Subject elaborates on the concepts and definitions of fertility and family planning, fertility determinants, the supply and demand for children, fertility regulations and their costs, the process of fertility decision-making, nuptiality and fertility (marriage, divorce, and family), social institutions and fertility, types and methods of contraception, side effects of contraception, contraceptive management (how to get, the correct way of use, goals, and targets of contraceptions), and population programs and family planning (Coaching for Families with Toddlers (BKB), Adolescents (BKR), and Elderly (BKL), and Self-Initiated Contraception (KB Mandiri)).
- KMD307      Mortality – 2 Credits  
This Subject reviews the concepts of mortality, determinants of mortality, Mosley-Chen model of mortality, fertility and mortality theory by Mahadevan, and case studies on child mortality.
- KMD304      Workers Sexual and Reproductive Health – 2 Credits  
This Subject reviews the introduction to workers' sexual and reproductive health; workers' health problems; workers' health epidemiology; work environment as a factor affecting workers' sexual and reproductive health; exposures to the tropical climate affecting workers' sexual and reproductive health; code of conduct and ethics for workers; protection against women workers, such as annual leave, menstrual leave, maternity leave, breastfeeding leave, miscarriage leave, marriage leave, aspects of women workers as mothers, and lactation rooms; reproductive health services for workers and health care insurance; issues on child labor, including preventive attempts on child labor; trafficking, sexual workers, and HIV and workers; and policies and programs on workers' protection.

**KMD314**      **Elderly Sexual and Reproductive Health – 2 Credits**  
This Subject discusses the concepts and theories of the elderly and their sexual and reproductive health; the dynamics of the elderly population; determinants of elderly sexual and reproductive health; elderly reproductive phases, including pre-menopause, menopause, and male menopause (andropause); elderly sexuality and welfare; policies and programs for elderly; and elderly sexual and reproductive health problems as well as health services and insurance for elderly.

#### **4. MAJOR IN EPIDEMIOLOGY**

**KME422**      **Health Measurement – 2 Credits**  
This Subject allows students to study health measurement, including the definition of measurement, measurement scales, sources of variation in measurement, and measurement precision and accuracy. This Subject also elaborates on numerous health measurements, comprising physical disability, social health, psychological condition, depression and mental status, pain, and quality of life.

**KME426**      **Epidemiology of Prevention and Control of Cardiovascular Diseases and Strokes – 3 Credits**  
This Subject discusses the theories of preventing and controlling heart diseases and strokes, including the risk factors, the health care costs (direct and indirect cost), the burden of disease, early detection, the prevention and management, and the efforts to increase the survivors' quality of life or rehabilitation. It also discusses the prevention and control of heart diseases and strokes through nutrition and exercise, the stakeholders (comprising the government, parliament, and civil society), and health promotion efforts in preventing and controlling heart diseases and strokes.

**KME417**      **Epidemiological Research – 2 Credits**  
This Subject elaborates on the concepts and principles of epidemiological research; criteria of causal relationships in drawing conclusions; the types, designs, and components; and critical appraisal of the previous studies.

**KME407**      **Epidemiology of Tropical Diseases – 3 Credits**  
This Subject discusses the magnitude, prevention, and control of tropical diseases, the distribution in the epidemiological approach, the determinants and risk factors of infectious diseases, and the preventive aspects of tropical disease management. Furthermore, the discussion focuses on controlling and preventing tropical diseases and the basic pathogenic mechanisms of several selected tropical diseases that are significant problems in public health.

KME420      Epidemiology of Accidents – 2 Credits  
This Subject reviews the materials regarding the definition, scopes, problems, and causes of accidents. It also discusses the concept of prevention in accidents. Moreover, in this Subject, students study the distribution of accidents according to place, time, and person. It also covers the accident frequency rate, accident incident rate, and accident severity rate. Students can also study the relationship between workers' absenteeism and disease patterns and the implementation of epidemiological research methods in accidents.

KME403      Epidemiology of Cancers – 3 Credits  
This Subject delivers the concepts of epidemiology of cancers, carcinogen toxicology, and descriptive epidemiology of cancer problems in Indonesia, covering lung, cervical, nasopharyngeal, leukemia, breast, liver, and colorectal cancers. There are also discussions on the epidemiological studies of cancers and the basis for conducting critical reviews on the previous studies' results.

## **5. MAJOR IN HEALTH NUTRITION**

NUM404      Nutrition (Practicum) – 2 Credits  
This Subject consists of the practicum on the anthropometric measurement methods of nutritional status assessment (PSG); body size and composition; data references; advantages and disadvantages of the anthropometric methods; the anthropometric methods of PSG on infants, toddlers, and adults; biochemical parameters on PSG; clinical parameters on PSG, including physical signs interpretation, functional assessment, advantages and disadvantages of clinical parameters on PSG, and clinical signs of various nutritional problems; indirect PSG; the WHO Anthro and WHO Anthro Plus software; counseling on growth and feeding, the dietetic parameters on PSG at the national, household, and individual levels; dietary quality; and meal plan.

NUM304      Food Technology and Nutrition – 2 Credits  
This Subject reviews the influence of food processing principles, comprising temperatures, drying, fermentation, and food additives; characteristics of food; nutrition packaging and storage to increase the added values and use of food; and the current issues on food.

EDM401      Nutrition Education – 2 Credits  
This Subject allows students to learn about the relationship among research, theories, and practices (including problems in nutrition education, determinants of diet and food choices, and theoretical framework and research); theory-based nutrition education design procedures (steps 1-6); implementation of nutrition education by working with diverse populations;

best practices of public policies and ethics; hands-on experiences with the Emo-Demo method; and the monitoring and evaluation of nutrition education programs.

- KME406      Epidemiology of Nutrition – 2 Credits  
This Subject examines the epidemiologic triangle; nutritional epidemiology determinant, distribution, and variable; the natural history of the nutritional disease; study design of observational nutritional epidemiology; and experimental study design of nutritional epidemiology.
- NUM318      Urban Nutrition – 2 Credits  
This Subject elaborates more on urban nutrition. The materials discussed in this Subject are nutritional problems in urban areas, such as the double and triple burden of malnutrition, and the causes, such as genetics, fetal programming, individual variation, lifestyle, behavior, sociocultural impact, and environments, namely food, economy, and physical or built environment. This Subject also analyzes demographic, epidemiologic, and nutrition transitions. The existing double-duty action programs and policies for nutrition are also described in this Subject.
- NUM401      Food Safety – 2 Credits  
This Subject discusses the introduction to food safety; food quality and security from biochemical aspects, physical, microbial, and chemical contaminants, and food standards; regulations, consumer protection, prevention, and control of food additives intoxication; and cases, prevention, and management of microbial intoxication. This Subject also elaborates on Hazard Analysis Critical Control Points (HACCP), including the system, basic requirements in the application, implementation, and program planning.

## **6. MAJOR IN OCCUPATIONAL HEALTH AND SAFETY**

- KMK102      Occupational Safety – 2 Credits  
This Subject discusses Occupational Health and Safety (OHS) in construction areas, hospitals, maritime, informal sectors, transportation, oil and gas, disasters and fire, and evaluation of the OHS Management System.
- KMK101      Occupational Health – 2 Credits  
This Subject elaborates on the scope of occupational health studies; preventive and promotive efforts; occupational health programs, workplace health services in the formal industrial and informal sectors; initial, periodic, and special health checks, hyperbaric (diving) and hypobaric (airspace) occupational health; health risk assessment (HRA); health risk management; and the recording and reporting systems.

- KMK214** Ergonomics and Work Physiology 1 – 2 Credits  
This Subject discusses ergonomics basic concept and its problems, work capacity and workload, the relationship between humans and machines, workplace design, work attitude and fatigue, work productivity, ergonomic display and Video Display Terminal (VDT), ergonomic risk assessment, organizing work, anthropometry and physical fitness, decorations and music, and color psychology.
- PSI307** Industrial Psychology – 2 Credits  
This Subject elaborates on the human resource planning process, selection and placement of labor, training and development, group organization and leadership, motivation and job satisfaction, occupational stress, workplace conflict, performance appraisal, and job title analysis.
- KMK106** Industrial Hygiene 1 – 2 Credits  
This Subject examines industrial hygiene concepts (including physical, chemical, and biological factors), Threshold Limit Values (TLVs) and Personal Protective Equipment (PPE), industrial ventilation, cafeteria, housekeeping, Respiratory Tract Hazards (RTH), and sanitation facilities in companies.
- FAT304** Industrial Toxicology I – 2 Credits  
This study examines the basic principle of toxicology, covering the physicochemical properties of toxic substances, toxicokinetics, toxicodynamics, and understanding the basic toxicology principles of chemicals circulating on target organs.

## **7. MAJOR IN ENVIRONMENTAL HEALTH**

- NUM102** Food Sanitation – 2 Credits  
This Subject examines the principles of food sanitation, food, and beverage sanitation management, food additives, Good Manufacturing Practice (GMP), ISO 22000, the HACCP, digestive system, and food-borne illnesses.
- LKM406** Control of Zoonotic Diseases – 2 Credits  
This Subject examines the definition and scope of zoonotic or animal-borne diseases, the epidemiology and distribution of transmission mechanisms, and their control.
- LKM314** Field Instrumentation and Observation – 3 Credits  
This Subject discusses the introduction, use, and tools application related to environmental health.

- LKM313      Water Management – 2 Credits  
 This Subject is delivered through lectures, group discussions, and presentations. This Subject discusses clean water, drinking water, water bodies, water criteria and classes, water supply, water contaminants, water's relation to health and disease, water inspection, water quality control, water treatment, and urban and rural water supply.
- LKM312      Waste Management – 2 Credits  
 This Subject is delivered through direct lectures, site visits, and presentations. It elaborates on the source and types of waste (including liquid, solid, and gaseous waste) and the effect on public health, liquid waste management systems (covering oxidation ditch, activated sludge, filtration, aeration, and sludge management), wastewater gardens, liquid waste management in the industrial area, fecal waste management, solid waste management (comprising 4R, landfill, incinerator, and, composting), biogas, and microbial transmission.
- LKM309      Vector and Rodent Control – 2 Credits  
 This Subject describes the definition of vectors and rodents, parasitology, environmental health, and sociological aspects of vector and rodent control.

## **8. MAJOR IN HEALTH PROMOTION AND BEHAVIORAL SCIENCE**

- MNS312      Health Promotion Indicators and Measurements – 2 Credits  
 This study elaborates on the definition of healthy, mental health, and social health; health promotion indicators and their types; and the definition and measurement indicators of knowledge, attitude, practice, perception, motivation, and self-efficacy.
- SOK325      Health Promotion Media Development (Practicum) – 3 Credits  
 This study outlines the processes from planning to developing health promotion media with the basis of graphic media (by utilizing various types of media, such as mugs, pins, posters, or banners), audio-visual media (by producing short movies or audio-visual public service announcement), and audio media (by developing radio programs or advertisements).
- EDM306      Health Promotion in Institutions – 3 Credits  
 This study elaborates on health promotion practices in various institutional settings. It also discusses the community or group empowerment in institutions to recognize health levels and issues, overcome, maintain, improve, and protect their health, and maintain and improve healthy institutions. This study explores the introduction to health promotion in institutions, workplaces, schools, and hospitals; health promotion of the elderly and adolescents; and current issues on health promotion in institutions.

PSC304 Health Psychology – 2 Credits  
This Subject examines various psychological concepts related to public health, covering the history of health psychology development; health psychology; the definition, source, and theory of stress; stress management and approach in public health; the social cognitive approaches of behavior determinants; behavioral compliance; the process of seeking help; personality; behavior patterns; health status measurement; and current issues on public health.

MNS313 Health Promotion Programs – 3 Credits  
In this Subject, students are expected to understand the examples of health promotion programs, grasp the theories of intervention mapping and Dignan, and analyze health promotion programs based on the intervention and Dignan theories.

## **G. SEMESTER VII**

PNM496 Research Methodology (Practicum) – 3 Credits  
This Subject examines the basics, guidelines, and steps of doing scientific writing in public health.

### **1. PEMINATAN ADMINISTRASI DAN KEBIJAKAN KESEHATAN**

MNP309 Health Services Marketing – 2 Credits  
This Subject studies marketing concept development in the health sector, the heart, mind, and market share of marketing concepts, service marketing strategies and tactics in the health sector, customer behavior, internal and interactive marketing, customer relationship marketing (CRM), and brands.

MNS407 Health Insurance – 2 Credits  
This Subject discusses the definition and system of financing and health insurance, health financing in several countries, Provincial Health Account (PHA) and District Health Account (DHA), health cost control, the concepts and forms of insurance, health insurance management, insurance control, payment systems to providers, managed care, utilization review (UR), and disease and case management.

SII407 Health and Hospital Management Information System – 2 Credits  
This Subject examines the basic concepts, scope, planning and development stages, and the application of management information systems (MIS) in health and hospitalization. The related topics are the basic concepts of health and hospital MIS; the role of information and communication technology (ICT) in health and hospital MIS; the role of MIS in decision making in health

and hospitalization; differences between data and information and their role in health and hospitalization; the MIS planning and development phases; approach in conducting system analysis, system design, and application of MIS in health and hospitals; several fields of information system studies, including geography information systems, health status information systems, health accounting information systems, health facility inventory systems for hospitals, inventory information systems, financial information systems, human resources information systems, marketing information systems, and service processes; and quality assurance programs and evaluation of health and hospital MIS.

- KMA404 Health Policy Analysis – 3 Credits  
This Subject discusses the management of community health centers and their managerial problems.
- MNS408 Strategic Management in Healthcare – 2 Credits  
This Subject discusses the general description and relevance of strategic management, strategic management models, organizational concepts, visions, and missions, organizational environment analysis, organizational culture and structure, strategic leadership, corporate-level strategies, strategic formulation, balanced scorecard, and strategic control.

## **2. MAJOR IN BIostatISTICS AND POPULATION STUDIES**

- SIK304 Biostatistics Computer Applications (Practicum) – 2 Credits  
This Subject reviews the skills of operating computers for data management, data analysis, and results description.
- SIK303 Population Analysis Computer Applications (Practicum) – 2 Credits  
This Subject discusses the introduction of population analysis computer applications using Mortpak, Spectrum, and Excel; population data evaluation utilizing Myers, Whipple, and Join Score Indexes; population data heap using Prorate, Financial Aid Suspension (Graduasi), and age group breakdown; population data processing; fertility measurement; fertility size association employing CBR, GFR, and TFR; mortality and life expectancy measurements; population projection with DemProj Module-Spectrum application; fertility impact analysis on socio-economics using RAPID Spectrum-Module application on health, education, economy, and environment; and population advocacy of population projection results.
- PNM407 Sampling Techniques and Size Determination – 2 Credits  
This Subject elaborates on the non-random and random sampling techniques (such as simple random sampling, systematic random sampling, stratified random sampling, and cluster random sampling) in observational or survey



studies, ways to estimate sample size from several observational sampling techniques, sampling techniques and methods to calculate the sample size of experimental studies, and sampling techniques for rapid survey studies.

- SII314      Introduction to Geographic Information System – 2 Credits  
This Subject discusses the concept of geographic information systems, methods of compiling geographical maps to describe health problems with a spatial approach for surveillance, and spatial correlation and spatial regression tests..
- MAS623      Basics in Multivariate Analysis – 2 Credits  
This Subject discusses matrix types and operations, Hotelling's T matrix operation, MANOVA, canonical correlation, discriminant analysis, and cluster analysis.

### **3. PEMINATAN KESEHATAN REPRODUKSI DAN KIA**

- KMD308      Sex, Gender, and Sexuality – 2 Credits  
This Subject discusses the concepts of gender, body, and reproductive health, the social construction of human sexuality, the relationship between genders and adolescent reproductive health, the relationship between gender and the reproductive health of fertile couples, gender analysis in reproductive health, the relationship between gender and the elderly, patriarchy and gender equality in reproductive health, and study of lesbian, gay, bisexual, and transsexual (LGBT).
- KMD310      Techniques of Fertility, Family Planning, and Mortality Measurement – 2 Credits  
This Subject conveys an introduction to fertility, birth control, and mortality measurement techniques, population data sources, population size, fertility measure, life tables, mortality measure, contraception measure, population projections, population and welfare indicators, and marriage and divorce (nuptiality) measure.
- PNM409      Sampling Methods for Population Studies – 2 Credits  
This Subject elaborates on the non-random and random sampling techniques (such as simple random sampling, systematic random sampling, stratified random sampling, and cluster random sampling) in observational or survey studies, ways to estimate sample size from several observational sampling techniques, sampling techniques and methods to calculate the sample size of experimental studies, sampling techniques for rapid survey studies, and quick count and sampling methods for large-scale research.

#### **4. MAJOR IN EPIDEMIOLOGY**

- KME423** Risk and Disease Mapping – 2 Credits  
This Subject discusses descriptive epidemiology as a foundation for mapping disease patterns and risks. The mapping skills will be conveyed using Health Mapper and EpiMap software.
- KME301** Epidemiology of Vaccine-Preventable Diseases – 3 Credits  
The materials are delivered in lectures and practicums and focus on the existence of epidemiological principles in vaccine-preventable diseases (VPDs), such as the concept of vaccine immunology, national vaccination programs, vaccination schedules, post-vaccination follow-up, and the epidemiology of various VPDs, such as tuberculosis, diphtheria, pertussis, tetanus, measles, poliomyelitis, hepatitis-B, mumps, rubella, and varicella.
- KME413** Data Management in Epidemiology – 2 Credits  
This Subject is a practicum (computer practice) utilizing the Epi Info software, which covers epidemiological data management, data management stages for surveillance activity data, and epidemiological research. It also includes the analysis of epidemiological data for surveillance, epidemiological research data, association measures, and risk size calculations.
- KME414** Health Screening – 3 Credits  
This Subject discusses the principles of screening, analyzing screening programs and tool capabilities, screening activities for diseases and health problems, physical and laboratory examinations for screening, and screening implementation results design, execution, and presentation.

#### **5. MAJOR IN HEALTH NUTRITION**

- NUM3012** Nutrition and Food Service Management – 2 Credits  
This Subject discusses food services; menu planning; production management, including food procurement, storage, preparation, cooking, and distribution; cost control; organization and management, comprising human resources management, physical facilities, and layout; sanitation and food safety; energy and waste management; financial data management and processing; promotion and cooking; and trends and issues in food services.
- NUM307** Current Nutrition Science and Technology – 2 Credits  
This Subject is knowledge enrichment to train students' critical analysis of various issues in food and nutrition in Indonesia and worldwide, develop Undergraduate Thesis materials, and organize seminar events.

- NUM216      Food Security – 2 Credit  
This Subject discusses the concept and paradigm of food security; determinants and indicators of food security; food security systems; food security conditions nationwide and worldwide from various aspects, such as production, availability, distribution, consumption, and food security, and the double burden of malnutrition; identification and measurement of food insecurity using the Food Insecurity Atlas (FIA) and the Information System Security Management and Assessment Program (ISMAP); and social capital and coping mechanisms
- NUM209      Food and Nutrition Economics – 2 Credits  
This Subject discusses the relationship between economic variables and food consumption and nutrition, the relationship between economic development and improved nutrition, economic policies and their effects on food consumption and nutrition, principles of minimizing food consumption costs, feasibility analysis and evaluation of food and nutrition programs, and measurement of the economic impact on nutrition problems.
- NUM408      Nutrition and Productivity — 2 Credits  
This Subject includes discussions on nutrition and work productivity; nutrition problems in institutions, such as CED, obesity, anemia, hypertension, hypercholesterolemia, and hyperuricemia; specific nutrition problems of female workers, such as pregnancy, menstruation, and lactation; workers' nutritional needs, such as macronutrients and micronutrients; work environment factors affecting workers' nutritional state; workers' nutrition in hot places and places exposed to radiation; and provision of meals at workplace.
- SOK103      Nutritional Anthropology – 2 Credits  
This Subject elaborates on an introduction to nutritional anthropology; the development of food system, food habits, and food preferences; ethnicity and eating habits; geographical dimensions of food and consumption; food ideology system; adaptive behavior on food and nutrition fulfillment; socio-cultural aspects during pregnancy, breastfeeding, and raising infants and children; food ethnography; nutritional anthropology study methods; and data collection, analysis, and interpretation on food consumption.

## **6. MAJOR IN OCCUPATIONAL HEALTH AND SAFETY**

- FAT305      Industrial Toxicology II – 2 Credits  
This Subject discusses the toxic effects of several chemical groups, including metals, organic solvents, pesticides, fibrogenic dust, asphyxiant gases, alcohols and aldehydes, and carcinogens, mutagen, and teratogens.

- KMK202**      Occupational Diseases – 2 Credits  
 This Subject describes the history and understanding of occupational diseases and how to diagnose them; causes of occupational diseases, including physical factors (such as noise, vibration, light, air pressure, and radiation), chemical factors (such as dust, steam, fume), micro-organism factors, occupational allergies, and psychology; diagnosis of disability from work accidents; and occupational diseases reporting.
- KMK310**      Industrial Hygiene II – 3 Credits  
 This Subject discusses the application of the Hazard Identification, Risk Assessment, and Risk Control (HIRARC) method on physical factors, including noise, vibration, radiation, lighting, climate, and pressure, and biological and chemical factors, including gas, solid, and liquid.
- KMK312**      Occupational Health and Safety Risk Management – 2 Credits  
 This Subject discusses risks in the work environment, hazard identification techniques, Occupational Health and Safety Assessment Series (OHSAS), qualitative and quantitative risk analysis techniques, basic concepts and implementation of risk management, Occupational Health and Safety Management System (SM3K) and its normative foundation, and SM3K audit.
- KMK313**      Occupational Health and Safety Implementation (Practicum) – 2 Credits  
 This Subject describes work climate, lighting, noise, dust measurement, pulmonary physiology, audiometry, blood pressure, blood chemistry, physical freshness, workload, and work fatigue.
- KMK306**      Ergonomics and Work Physiology II – 2 Credits  
 This Subject elaborates more on the measurement of mental and physical load; the risk management and assessment methods of manual handling work; Recommended Weight Limit (RWL) and Lifting Index (LI); risk assessment of musculoskeletal disorders using Ovako Working posture Assessment System (OWAS), Rapid Upper Limb Assessment (RULA), Rapid Entire Body Assessment (REBA), and Nordic Body Map methods; and time and motion studies.

## **7. MAJOR IN ENVIRONMENTAL HEALTH**

- LKM308**      Environmental Sanitation – 2 Credits  
 This Subject discusses diseases, accidents, and their parameters, regulations related to environmental sanitation health, fecal-oral transmission diseases, housing and health, and excreta management.

- LKM310      Environmental Management – 2 Credits  
 This Subject focuses on environmental management, which includes Environmental Management Regulations; ISO 14000; Environmental Economic Instruments; Environmental Damage Prevention Instruments; Environmental Audits; Environmental Impact Assessment (EIA), comprising Community Engagement, Methodology, and Scoping; Environmental Management and Monitoring Efforts (UKL-UPL); and Environmental Risk Analysis.
- MNS404      Environmental Health Risk Assessment – 3 Credits  
 This Subject discusses Ecological Risk Assessment, Human Health Risk Assessment, Environmental Health Risk Assessment, Environmental Health Impact Assessment (EHIA), studies of Environmental and Public Health Assessment in EIA, and ISO 9000 and ISO 14000.
- KME425      Environmental Health Aspects in Disaster Management – 2 Credits  
 This material discusses the disaster management cycle, disaster risk, disaster characteristics, health problems during disasters, disaster management, refugee management, and environmental health planning.
- FAT206      Environmental Toxicology – 2 Credits  
 This Subject elaborates more on the definition and scope of environmental toxicology, how toxicants work, dose-response relationship (toxicometry), toxicokinetics, toxicodynamics, biotransformation, identification of toxicants, toxic chemicals in the environment, body load on chemicals, distribution of chemicals in the environment, and clarification on the poisonous effect of food additives.

## **8. MAJOR IN HEALTH PROMOTION AND BEHAVIORAL SCIENCE**

- SOK408      Integrated Health Marketing Communication – 2 Credits  
 This Subject discusses an introduction to integrated health marketing communications (MarCom), basic concepts of MarCom, Combi, behavior change, personal selling, direct marketing, advertising, customer service, e-commerce events, packaging, sales promotion, sponsorship, trade shows, public relations, market research, and MarCom strategies
- EDM402      Health Politics – 2 Credits  
 This Subject focuses on an introduction to political science, the history of public health movements and health promotion, sustainable development and health, social exclusion, discrimination and health promotion, public services and health, health problems as political issues, and public health in social and action contexts.

- PSI407      Organizational Behavior – 2 Credits  
This Subject elaborates more on organizational concepts and theories; individual differences, values, and diversity; emotions, attitudes, and job satisfaction; social perception and attribution in organizations and the role of motivation in organizations; teamwork in health promotion programs and health promotion organizational communication; and power and politics in organizations as well as organizational culture and change.
- PSK303      Community Empowerment in Health II – 3 Credits  
This Subject discusses Participatory Rural Appraisal, empowerment levels, empowerment setting, evaluation of community empowerment, sustainability of community empowerment programs, cases of community empowerment programs, and community empowerment activities.
- SOS402      Social Determinants of Health – 3 Credits  
The materials presented in this Subject include the concept of social determinants, specific issues in public health, and the role of public health in social determinants of health.

#### **H. SEMESTER 8**

- KKM401      Internships – 3 Credits  
An internship is a structured academic activity that must be conducted by all students of the Bachelor Program in Public Health as a prerequisite to obtaining a Bachelor of Public Health (S.K.M.) degree. Internships are carried out as learning activities while working in agencies, organizations, or community groups, guided by academic staff according to their fields and following the activities' general goals and specific objectives.
- PNM499      Undergraduate Thesis – 4 Credits  
Undergraduate Thesis is the final project of the study that comprises the independent introduction of various scientific information on public health of Major, aspects or problems of in-depth public health approaches, and the preparation of writings following the applicable scientific writing rules.

# **CHAPTER X**

## **SUBJECT DESCRIPTION FOR THE BACHELOR PROGRAM OF NUTRITION**

### **A. SEMESTER I**

AGI101 (Islam), AGP101 (Protestantism), AGK101 (Catholicism), AGH101 (Hinduism), AGB101 (Buddhism), dan AGC101 (Confucianism)

Religion I – 2 Credits

This Subject discusses religious rules and laws in general that are related to daily life and character building.

NOP102      Pancasila – 2 Credits

This Subject discusses the study of national history and the role of Pancasila as the national principles and the state ideology. It also confers about Pancasila's philosophical and ethical systems, its values as the basis of knowledge development, the precepts' meanings, and its implementation in nation and state lives.

NOP103      Civics – 2 Credits

This Subject discusses civics as an orientation for enhancing the character of Indonesia as a nation, national identity, the state and the constitution, relations between the state and citizens, Indonesian democracy and democratic education in Indonesia, the state of law and human rights, Indonesia's geopolitics (archipelago insight) and geostrategy (national defense), national integrity, state defense, and anti-corruption education with the axiological basis for student behaviors in family, society, nation, and state lives.

BAI101      Indonesian – 2 Credits

This Subject discusses the Indonesian language's history, position, and function and elaborates on the Indonesian Spelling System General Guidelines (*Pedoman Umum Ejaan Bahasa Indonesia* or PUEBI) in forming effective sentences and paragraphs. This Subject also reviews academic article writing, referencing techniques, and presentations.

SIP107      Data and Literature – 2 Credits

This Subject encourages students to interpret and utilize data appropriately and responsibly to formulate solid and coherent arguments, evaluate the quality of others' ideas, and make decisions. Students are encouraged to search, read, evaluate, and sort claims or information written in scientific literature. In this Subject, students can also practice organizing scientific

references utilizing referencing management software.

- ETM101 Health Law and Ethics – 2 Credits  
This Subject discusses human rights (HAM), rights, and obligations; bioethics in health services and research; ethics, academic ethics, and health law and ethics; health code of ethics; health care ethics; informed consent in health care; malpractices; and professionalism and professional oath.
- KMU103 Basic Communication and Health Services – 2 Credits  
This Subject reviews the basic concept of building altruism and motivation to grow empathy as prospective health professionals in solving health problems from community behavior and cultural perspectives. The holistic approach to health services, effective communication, and counseling are also discussed in this Subject. This Subject also discusses the fundamentals of empathy that future health professionals must have and the application of therapeutic communication. Further discussions comprise the concept of health and illness in the community; current public health issues, their causes, and solutions in comprehensive, promotive, preventive, curative, and rehabilitative approaches; and the development of health promotion and several healthcare settings.
- MAT108 Mathematics – 2 Credits  
This Subject elaborates on the introduction to mathematics for nutrition, mathematical logic, systems of linear equation, linear programs, functions and their graph, limit and continuity of functions, functions derivatives and their use, extrapolation and interpolation, data presentation, the size of centering, size of the spread, and the introduction to probability.
- KID109 Organic and Inorganic Chemistry – 3 Credits  
This Subject discusses the atomic structure and periodic systems; chemical bonds, comprising ionic, covalent, coordination, and hydrogen bonds; stoichiometry; redox and thermochemistry; reaction rate; reaction equilibrium; solutions, including types, concentrations, and colligative properties; introduction to organic chemistry, consisting of aliphatic hydrocarbons (alkanes, cycloalkanes, and haloalkanes), alkenes and alkynes, and aromatic compounds; and alcohol and ether.

## **B. SEMESTER 2**

- BIF104 Physiology – 4 Credits  
This Subject discusses Introduction to physiology, the cardiovascular system, body fluids and blood, the respiratory system, the urinary system, the digestive system, the endocrine system, and the exchange of energy and body temperature.



PHP103 Logical and Critical Thinking – 2 Credits

This Subject studies fundamental philosophical questions regarding the essence of science, how science works, methods of acquiring science, and implication of modern scientific developments. This Subject also aims to analyze the position of science in philosophy and the role of philosophy in the debates on the basic rules of modern science. In more detail, this Subject contains three main themes: first, exploring the differences between science and common sense, including the characteristics and methods of acquisition, which become the subjects of study in the philosophy of science. Second, analyzing the major transition in the philosophy of science tradition, namely falsification (Karl Raimund Popper) and paradigm shift or scientific revolutions (Thomas Kuhn). Third, reviewing classical debates in the philosophy of science, including the argumentation on whether science can wholly explain reality, how historical contextuality influences the development of science, and how science has succeeded (and failed) in transforming human civilization. Fourth, involving students to appreciate the practical implications of the philosophy of science to various modern research methodologies.

MNM107 Introduction to Scientific Collaboration – 2 Credits

This Subject discusses the motivation for building collaboration and cooperation, the concept of interprofessional collaboration in education, the basic idea of leadership and decision-making, interdisciplinary communication and collaboration, collaborative communication, the notion of community, implementation of collaboration in a community, project-based learning of interprofessional collaboration in education, and community project-based understanding of interprofessional collaboration in education

MNM106 Communication and Self-Development – 2 Credits

This Subject offers the students insight and opportunities to explore their potential to develop and increase their capacity through collaboration by coaching activities in the Student Activity Unit (UKM) and other student organization activities.

BIA102 Anatomy – 2 Credits

This Subject reviews the introduction to anatomy, cells, and tissues; anatomical structure of the outer surface of the body; respiratory and endocrine systems anatomy; reproductive system in men and women; nervous system anatomy; humans' five senses system anatomy; and digestive, excretory, urinary, and cardiovascular systems anatomy.

**BID107** Introduction to Human Biology – 2 Credits

This Subject elaborates on the definition and scope of human biology in health and nutrition; the definition, history, and functions of embryology in solving anatomical abnormalities; the primary substance of protoplasm constituents of human cells; the process of protoplasm synthesis in the cytoplasm and the occurrence of cell division; reproductive organs and gametogenesis; spermatogenesis and oogenesis; ovulatory process; human reproductive cycle; menstrual cycle; menses, proliferative, and secretion phases until the union of gametes forming a zygote; zygote division; segmentation and formation of morula, blastula, and gastrula; the differentiation of the germinal layer forming the embryo's organs (organogenesis); various inherited congenital disorders; pregnancy period susceptible to abnormalities and the influence of external and environmental factors, such as infection, radiation, drugs, and nutrition, on congenital abnormalities; genetic material, genotype functions, and phenotype functions; basics of Mendell inheritance and sex determination; genital and autosomal adrift; double allele; and population genetics.

**MNU401** Principles of Management – 2 Credits

This Subject elaborates on the history of administrative development; the concept and scope of organization and management; the definition of organizations, including organizational principles, structures, and behaviors; the definition and functions of management, comprising planning, organizing, staffing, directing, coordinating, reporting, and budgeting; leadership and management techniques; and basic concepts of strategic management.

**BIK102** Introduction to Biochemistry – 2 Credits

This Subject discusses bioenergetics, redox, and tricarboxylic acid (TCA) cycle; enzymology; carbohydrate metabolism; water and mineral metabolism; membrane and transport; amino acid metabolism; lipid metabolism; purine-porphyrin-pyrimidine metabolism; xenobiotic metabolism; blood and immune system; acid-base balance; oxidants and antioxidants; gene expression and protein synthesis; and endocrine.

**PSG105** Psychology – 2 Credits

This Subject discusses the introduction to psychology, human development, introduction to cognitive processes, memory and concepts, intelligence and cognitive development, language, problem-solving and creativity, learning models, concepts of self and moral development, motivation, behavior, counseling, and measurement and evaluation in the learning process

### **C. SEMESTER 3**

**NUM204 Principles of Culinary – 2 Credits**

This Subject reviews the introduction to culinary; definition, purposes, and types of culinary nutrition implementation; materials and types of equipment; work plan, sanitation, and work accidents; foodstuffs, comprising basic foodstuffs, sugar and alcohol, food sources of animal and plant proteins, vitamins, minerals, fats, and seasonings; and soft drinks and light meals, including beverages and snacks.

**NUM221 Principles of Culinary (Practicum) – 1 Credit**

This Subject reviews the introduction to culinary; definition, purposes, and types of culinary nutrition implementation; materials and types of equipment; work plan, sanitation, and work accidents; foodstuffs, comprising basic foodstuffs, sugar and alcohol, food sources of animal and plant proteins, vitamins, minerals, fats, and seasonings; and soft drinks and light meals, including beverages and snacks.

**NUM222 Food Sciences and Technology – 2 Credits**

This Subject discusses the introduction to food sciences and basic knowledge of food ingredients; physical, chemical, and physiological characteristics of food ingredients, including cereals, tubers, nuts, poultry, beef, fish, eggs, milk, vegetables, fruits, and spices; and functional food.

**NUM223 Food Sciences and Technology (Practicum) – 1 Credit**

This Subject discusses the introduction to food sciences and basic knowledge of food ingredients; physical, chemical, and physiological characteristics of food ingredients, including cereals, tubers, nuts, poultry, beef, fish, eggs, milk, vegetables, fruits, and spices; and functional food.

**NUM224 Food Microbiology – 2 Credits**

This Subject explains the characteristics and sources of microbes and growth factors of microorganisms in food, ways to control the microorganisms' growth, how to enumerate and detect microbes in food, and the use of microbes and nutrient changes.

- NUM225      Food Microbiology (Practicum) – 1 Credit
- This Subject involves identifying various types of microbes in food products, the utilization and change of nutrients, and the organoleptic properties of food ingredients caused by microbes.
- NUM226      Nutrition Analysis – 2 Credits
- This Subject elaborates more on the characteristics of food sources of carbohydrates, fats, proteins, fat-soluble and water-soluble vitamins, macro and microminerals, and the qualitative and quantitative principles and techniques for analyzing them.
- NUM101      Principles of Nutrition Science – 2 Credits
- This Subject discusses the definition and history of nutritional science; the relationship between nutritional science and other disciplines; the relationship between food, nutrition, and health; various kinds of nutrients, such as carbohydrates, proteins, fats, energy, fat-soluble vitamins, water, water-soluble vitamins, macrominerals, and microminerals; and the concept of Nutrient Reference Value, including the Estimated Average Requirement (EAR), Recommended Daily Allowance (RDA), and Tolerable Upper Intake Level (UL).
- NUM216      Food Security – 2 Credits
- This Subject reviews the concept and paradigm of food security; determinants and indicators of food security; food security systems; food security conditions nationwide and worldwide from various aspects, such as production, availability, distribution, consumption, and food security, and the double burden of malnutrition; identification and measurement of food insecurity using the Food Insecurity Atlas (FIA) and the Information System Security Management and Assessment Program (ISMAP); and social capital and coping mechanisms.
- AGB401      Buddhism II – 2 Credits
- This Subject elaborates on the relationship between religious laws and health nutrition and the application of Buddhism in health nutrition.
- AGC401      Confucianism II – 2 Credits
- This Subject explains the relationship between religious laws and health nutrition and the application of Confucianism in health nutrition.

- AGH401      Hinduism II - 2 Credits  
 This Subject reviews the reasons and ways to deliver Hinduism in universities, the history of Hinduism development, how human beings believe and understand their Gods, understanding the Vedas as the source of Hindu law, techniques to build ethics and morality in life, Hinduism's methods in building unity in diversity, Hinduism's strategies in facing the modernization challenges and science and technology development, Hinduism's contributions to the development of world civilization, the local culture's roles and functions in the development of Hindu culture, Hindus' obligations as part of the Indonesian nation, Hindus' challenges in facing the national moral crisis, moral and identity problems, and the ability to read the Vedas.
- AGI401      Islam II – 2 Credits  
 This Subject discusses nutrition and food according to Islam, the diet of the Prophet of Allah, maternal nutrition, child nutrition in Islamic guidance, childcare in Islam, food beliefs and taboos from the Islamic perspective, reproductive health from the Islamic perspective, halal (permissible) and haram (forbidden) food, contemporary medical and health fiqh issues in Islam, nutrition-related diseases and curative efforts in Islam, fasting nutrition, social system and rules in Islam, and Islam as a holistic order of life.
- AGK401      Catholicism II - 2 Credits  
 This Subject discusses the identity of Protestant public health students, vision and motivation, the concepts of health and illness, exemplary, responsibility for the environment, prioritization, time management, leadership, effective communication, research ethics, witnessing through family, and Capita Selecta.
- AGP401      Protestantism II – 2 Credits  
 This Subject discusses the identity of Protestant public health students, vision and motivation, the concepts of health and illness, exemplary, responsibility for the environment, prioritization, time management, leadership, effective communication, research ethics, witnessing through family, and Capita Selecta.
- SOS236      Sociology of Nutrition – 2 Credits  
 This Subject discusses sociological concepts, definitions and perspectives of health sociology, sociological aspects affecting nutrition and health behaviors, and food and nutrition politics.
- SOA103      Nutritional Anthropology – 2 Credits  
 This Subject elaborates on an introduction to nutritional anthropology; the development of food system, food habits, and food preferences; ethnicity and eating habits; geographical dimensions of food and consumption; food

ideology system; adaptive behavior on food and nutrition fulfillment; socio-cultural aspects during pregnancy, breastfeeding, and raising infants and children; food ethnography; nutritional anthropology study methods; and data collection, analysis, and interpretation on food consumption.

#### **D. SEMESTER 4**

- NUM227      Food Formulation – 2 Credits  
This Subject reviews the introduction to the need for New Product Development (NPD) and the development of traditional and modern food formulas for nutritional target groups according to age, including infants, toddlers, children, adolescents, pregnant women, and the elderly through food trial stages. The stages include goal setting for the food experiment, formulation of nutritional food problems, formulation of food and beverage product concepts, food and beverage experiment design, packaging and label design, formulation practices for the new food and beverage, sensory assessment of food, and data processing and analysis of food experiment results.
- NUM215      Food Formulation (Practicum) – 1 Credit  
This Subject reviews the introduction to the need for New Product Development (NPD) and the development of traditional and modern food formulas for nutritional target groups according to age, including infants, toddlers, children, adolescents, pregnant women, and the elderly through food trial stages. The stages include goal setting for the food experiment, formulation of nutritional food problems, formulation of food and beverage product concepts, food and beverage experiment design, packaging and label design, formulation practices for the new food and beverage, sensory assessment of food, and data processing and analysis of food experiment results.
- NUM302      Management of Industrial Food and Nutrition Services – 2 Credits  
This Subject discusses food services; menu planning; production management, including food procurement, storage, preparation, cooking, and distribution; cost control; organization and management, comprising human resources management, physical facilities, and layout; sanitation and food safety; energy and waste management; financial data management and processing; promotion and cooking; and trends and issues in food services.
- NUM329      Management of Industrial Food and Nutrition Services (Practicum) – 1 Credit  
This Subject elaborates on how to conduct and regulate the mass food service system, which includes food procurement; food storage, preparation, and processing; menu preparation and evaluation; human resource management,

finance, and facilities; sanitary hygiene and food safety; waste management; and promotion and marketing.

- KLM304 Management of Industrial Food and Nutrition Services Fieldwork – 2 Credits  
This fieldwork is conducted explicitly for the Management of Industrial Food and Nutrition Services Subject, which elaborates on how to conduct and regulate the mass food service system, including food procurement; food storage, preparation, and processing; menu preparation and evaluation; human resource management, finance, and facilities; sanitary hygiene and food safety; waste management; and promotion and marketing.
- NUM105 Nutrition in the Life Cycle – 2 Credits  
This Subject focuses on various aspects of nutrition and its problems in life stages, consisting of preconception nutrition, nutrition during pregnancy, nutrition for breastfeeding mothers, infant and toddler nutrition, preschooler nutrition, student nutrition, adolescent nutrition, adult nutrition, elderly nutrition, and nutrition and normal aging.
- NUM229 Nutrition in the Life Cycle (Practicum) – 1 Credit  
This Subject focuses on various aspects of nutrition and its problems in life stages. In this Subject, students can conduct nutritional interventions based on nutrient roles, dietary needs, and different nutritional concerns in each cycle of human life.
- NUM406 Nutritional Status Assessment – 2 Credits  
This Subject discusses the anthropometric nutritional status assessment (PSG), including weaknesses and disadvantages of anthropometric methods, errors, body size measurements, body composition measurements, reference standards, and evaluation of anthropometric indicators; biochemical nutritional status assessment, including proteins, vitamins A, D, C, B, E, selenium, iodine, iron, calcium, and zinc; clinical nutritional status assessment, consisting of physical sign interpretation, functional assessment, the weaknesses of clinical nutritional status assessment, and clinical signs of various nutritional problems; and indirect nutritional status assessment.
- NUM402 Nutritional Status Assessment (Practicum) – 2 Credits  
This Subject discusses the anthropometric nutritional status assessment (PSG), including weaknesses and disadvantages of anthropometric methods, errors, body size measurements, body composition measurements, reference standards, and evaluation of anthropometric indicators; biochemical nutritional status assessment, including proteins, vitamins A, D, C, B, E, selenium, iodine, iron, calcium, and zinc; clinical nutritional status assessment, consisting of physical sign interpretation, functional assessment,

the weaknesses of clinical nutritional status assessment, and clinical signs of various nutritional problems; and WHO Anthro and Anthro Plus.

- NUM231 Food and Nutrition Entrepreneurship (Practicum) – 2 Credits  
This Subject focuses on implementing a business plan for food and nutrition entrepreneurship, marketing products and services through various marketplace platforms, and evaluating the entrepreneurship results.
- NUM211 Food Safety – 2 Credits  
This Subject discusses the introduction to food safety; food quality and security from biochemical aspects, physical, microbial, and chemical contaminants, and food standards; regulations, consumer protection, prevention, and control of food additives intoxication; and cases, prevention, and management of microbial intoxication. This Subject also elaborates on Hazard Analysis Critical Control Points (HACCP), including the system, basic requirements in the application, implementation, and program planning.
- NUM103 Energy and Macronutrient Metabolism – 2 Credits  
This Subject conveys an introduction to thermodynamics, equilibrium and non-equilibrium reactions; metabolism regulation and control; an overview of energy production or carbohydrate metabolism; glycolysis; beta-oxidation or TCA cycle; Electron Transfer System (ETS); glycogenolysis, gluconeogenesis, the Cori cycle; fatty acids metabolism, acylglycerol, and sphingolipids; cholesterol and lipoprotein metabolism; protein synthesis and degradation, metabolism, turnover, and adaptation; and amino acid metabolism.
- NUM104 Micronutrient Metabolism – 2 Credits  
This Subject is the continuation of basic nutritional science, which discusses the absorption, transportation mechanism, metabolism, excretion of various micronutrients like vitamins and minerals, and the interaction mechanism of micronutrients with nutrients and other compounds.

## **E. SEMESTER 5**

- NUM321 Food Consumption Survey – 2 Credits  
This material explains the principles of food consumption assessment, which includes various food intake assessment instruments and consumption patterns, methods of food consumption measurement, analysis and interpretation of food consumption assessment results, and dietary quality measurement at the individual, group, and national levels.
- NUM322 Food Consumption Survey (Practicum) – 1 Credit  
This Subject demonstrates how to assess food consumption, which includes food intake assessment instruments and consumption patterns, methods of



food consumption measurement, analysis and interpretation of food consumption assessment results, and dietary quality measurement at the individual, group, and national levels.

NUM203 Nutrition Education – 2 Credits

This Subject focuses on definition and concepts of nutrition education; dietary guidelines; determinants of food selection patterns, changes in dietary patterns, and implications for nutrition education; setting, audience, and scope of nutrition education; theory of behavior change underlying nutrition education, including the health belief model, the theory of planned behavior, the precaution adoption process model, and the self-determination theory; environmental support for nutrition education, comprising interpersonal environment (family, peers, and social supports) and organizational-level environment (school and workplace setting); nutrition education media; nutrition education strategies in groups and organizations; nutrition education via websites; nutrition education strategies through mass media; and designing nutrition education methods and media with assignments.

NUM323 Nutrition Education (Practicum) – 1 Credit

This Subject contains the practice of planning, implementing, and evaluating the success of nutrition education by applying theories of behavior change, including the health belief model, the theory of planned behavior, the precaution adoption process model, and the self-determination theory; environmental support for nutrition education, comprising interpersonal environment (family, peers, and social supports) and organizational-level environment (school and workplace setting); nutrition education media design; nutrition education strategies in groups and organizations; nutrition education via websites; and nutrition education strategies through mass media.

MAS210 Statistics – 2 Credits

This Subject provides students with an overview of statistics that will be used as a basis for conducting research or a Undergraduate Thesis. This Subject elaborates on the definition, scope, and role of statistics in the field of nutrition; data, data scale, and data type; descriptive statistics; the size of centering; the measure of diversity; data presentation; the concept of inferential statistics; theory of probability and random numbers; statistical distribution; estimation test; statistical test selection techniques; and quantitative data analysis and presentation in nutrition research and nutritional status determination.

- MAS115      Statistics (Practicum) – 1 Credit
- This Subject practices statistical tests that will be used as a basis for conducting research or a Undergraduate Thesis. This Subject practices the concept of inferential statistics; theory of probability and random numbers; statistical distribution; estimation test; statistical test selection techniques; and quantitative data analysis and presentation in nutrition research and nutritional status determination.
- NUM306      Nutritional Computing (Practicum) – 2 Credits
- This Subject discusses the introduction of several software for nutrition, such as the Desirable Dietary Pattern (DDP), Emergency Nutrition Assessment (ENA), Food Balance Sheet (FBS), WHO Anthro and WHO AnthroPlus, NutriSurvey, Epi Info, Nutriclin, and Monitoring Nutritional Status applications.
- BIF301      Pathophysiology for Infectious Diseases and Malnutrition – 2 Credits
- This Subject conveys pathophysiology or the mechanism of physiological changes due to infectious disease and deficiency, followed by an analysis of mechanisms related to the role of nutrients as risk factors and therapy. This Subject is delivered through paper writing assignments and presentations with the scientific and latest approaches following science development. The Subject comprises the pathophysiology of HIV/AIDS, respiratory tract infections, anemia, malnutrition, upper digestive and lower gastrointestinal tract infections, hepatobiliary system infections, and sepsis.
- BIF302      Pathophysiology for Degenerative Diseases – 2 Credits
- This Subject discusses the pathophysiology or the mechanism of the physiological changes due to diseases because of deterioration of body organ function or degenerative processes, followed by analysis related to the role of nutrients both as risk factors and therapy. This Subject is delivered through paper writing assignments and presentations with the scientific and latest approaches following science development. The material comprises the pathophysiology of obesity, hypertension, dyslipidemia, diabetes mellitus, metabolic syndrome, cardiovascular disease, cancer, and chronic kidney disease.
- NUM324      Standardized Nutrition Care Process (NCP) – 2 Credits
- This Subject discusses the duties, authorities, and aspects of professional ethics and the legality of the nutritionist profession in hospitals; the Standardized Nutrition Care Process (NCP), including assessment, diagnosis,

intervention, and nutritional monitoring and evaluation; the NCP in various cases of disease; case presentation; and field trips to hospitals.

**NUF302 Pharmacology and Food-Drug Interactions – 2 Credits**

This material explains the principles of pharmacokinetics (PK) and pharmacodynamics (PD); the concept of drug absorption consumed with food, drug boosters, and inhibitors; the effects of drug consumption on nutritional status; drug and food interactions in chronic diseases, gastrointestinal diseases, and cancer; drugs and enteral feeding interactions; drug and food interactions in children, the elderly, pregnancy, and lactation; the influence of nutritional status on drugs; and drug and supplement interactions.

**NUM314 Sports Nutrition – 2 Credits**

This Subject elaborates on sports physiology; metabolism in various sports; energy, macro, and micronutrient needs; fluid balance; diet management; determination of athletes' nutritional status with body composition; nutritional regulation during training and competition; doping supplementation; and ergogenic aids.

**Electives I**

**NUM209 Food and Nutrition Economics – 2 Credits**

This Subject discusses the relationship between economic variables and food consumption and nutrition; the relationship between economic development and improved nutrition; economic policies and their effects on food consumption and nutrition; principles of minimizing food consumption costs, feasibility analysis, and evaluation of food and nutrition programs; and the measurement of the economic impact of nutritional problems.

**NUM311 Nutrition and Productivity – 2 Credits**

This Subject includes discussions on nutrition and work productivity; nutrition problems in institutions, such as CED, obesity, anemia, hypertension, hypercholesterolemia, and hyperuricemia; specific nutrition problems of female workers, such as pregnancy, menstruation, and lactation; workers' nutritional needs, such as macronutrients and micronutrients; work environment factors affecting workers' nutritional state; workers' nutrition in hot places and places exposed to radiation; and provision of meals at workplace.

NUM310 Nutrition and HIV/AIDS – 2 Credits

This Subject focuses on the epidemiology of HIV/AIDS nationwide and worldwide; the concept of HIV/AIDS and immunity; nutrients related to HIV/AIDS, such as anti-oxidants and trace elements; the ARV treatment and nutrition; use of herbs and non-nutritive supplements in HIV/ADS; nutrition support and care for adult PLHIV, including nutritional needs and status assessment, nutritional care, treatment, and wasting management; nutrition support and care for pregnant and lactating women with HIV positive, infants and young children (IYC) 0-24 months born to HIV-positive mothers, and IYC 0-24 months who are HIV positive; nutritional counseling for PLHIV and groups affected by HIV/AIDS; HIV/AIDS in the context of food security; and mitigation for HIV/AIDS impacts.

NUM313 Emergency Nutrition – 2 Credits

This Subject elaborates on emergency problems in Indonesia; main nutritional problems in emergencies, such as protein-energy undernutrition (PEU) and micronutrient problems; nutritional status assessment and nutritional surveillance in emergencies for individuals and populations; general principles of feeding in emergencies, including the selection of food types according to population conditions, rationing, hygiene issues, and distribution; general principles of emergency nutrition in vulnerable groups, comprising feeding for infant and young child, pregnant women, and elderly; supplementary feeding during emergencies, consisting of blanket and targeted supplemental feeding, selection of different foods, portions, beneficiaries, and distribution; therapeutic feeding during emergencies, comprising the Recovery Complementary Feeding Programs (PMT-P), general procedures of PMT-P on chronic PEU, therapeutic feeding general procedures, preparation and feeding, care and treatment, signs of recovery, complications, organization, and therapeutic feeding center; organization, such as cross-sector coordination, community participation, and operationalization; rehabilitation, including psychosocial and mental health problems, minimizing dependence on assistance and facilitation during rehabilitation, and exit strategy; and monitoring and evaluation.

NUM312 Industrial Nutrition – 2 Credits

This Subject discusses nutrition in the food industry, supplements and functional foods, nutrition research and market research in the food industry, regulations on supplements and functional foods, food fortification in Indonesia, food labeling, nutrition labeling and claims, food and nutrition labeling on infant formula products and formulations for babies with special

needs, food additives, food irradiation and biotechnology, contamination in the food industry, food production regulations, food distribution regulations, food safety regulations, and Good Manufacturing Practices (GMP) in the food industry.

## **F. SEMESTER 6**

NUD302 Dietetics for Infectious Diseases and Deficiency – 2 Credits

This Subject conveys the theories and application of standardized nutrition care planning in various infectious and deficiency diseases with the latest scientific approaches following dietetic science development. The material in this Subject includes dietetics for respiratory tract infections, gastrointestinal tract diseases, HIV/AIDS, malnutrition, hepatitis, and sepsis.

NUD303 Dietetics for Infectious Diseases and Deficiency (Practicum) – 1 Credit

This Subject is a practicum on standardized nutrition care management with problem-based learning methods on various infectious and deficiency diseases with the latest scientific approaches following dietetic science development. The Subject comprises dietetics for respiratory tract infections, gastrointestinal diseases, HIV/AIDS, malnutrition, hepatitis, and sepsis.

NUD304 Dietetics for Degenerative Diseases – 2 Credits

This material is a practicum on standardized nutrition care management with problem-based learning methods on various degenerative disease conditions with the latest scientific approaches following dietetic science development. This Subject comprises dietetics for cancer, hypertension, dyslipidemia, coronary heart disease, stroke, metabolic syndrome, diabetes mellitus, and kidney failure.

NUD305 Dietetics for Degenerative Diseases (Practicum) – 1 Credit

This material is a practicum on standardized nutrition care management with problem-based learning methods on various degenerative disease conditions with the latest scientific approaches following dietetic science development. This Subject comprises dietetics for cancer, hypertension, dyslipidemia, coronary heart disease, stroke, metabolic syndrome, diabetes mellitus, and kidney failure.

NUM202 Nutritional Counseling – 3 Credits

This Subject focuses on the introduction to nutrition counseling; counseling interview approaches and techniques; the transtheoretical model and

motivational interviewing; counseling theories and direct practices in various groups and settings, including pregnant women, nursing mothers, children, adolescents, people with diabetes mellitus, people with gout, people with hypertension, elderly, and prospective pilgrims; and nutrition-aware family (kadarzi) and child growth.

PNM491 Research Methodology – 2 Credits

This Subject discusses an introduction to research methods. What is elaborated on in this Subject includes scientific and non-scientific knowledge, research scope in nutrition, and qualitative and quantitative approaches in research. It also explains the systematics of writing Undergraduate Thesis proposals, including preparation of background, problem identification, problem formulation, research objectives and benefits; research's conceptual framework and hypoUndergraduate Thesis; research methods, comprising research types and designs, population and samples, operational variables and definitions; data analysis processing and techniques; and research ethics. Furthermore, it also conveys ways to display research results and make discussions, conclusions, and suggestions. In addition, students are also taught to compose scientific articles following the style guide of journals managed by the Department of Health Nutrition, namely Media Gizi Indonesia (MGI) and Amerta Nutrition.

NUM318 Urban Nutrition – 2 Credits

This Subject elaborates more on urban nutrition. The materials discussed in this Subject are nutritional problems in urban areas, such as the double and triple burden of malnutrition, and the causes, such as genetics, fetal programming, individual variation, lifestyle, behavior, sociocultural impact, and environments, namely food, economy, and physical or built environment. This Subject also analyzes demographic, epidemiologic, and nutrition transitions. The existing double-duty action programs and policies for nutrition are also described in this Subject.

NUM207 Nutrition Programs and Evaluation – 2 Credits

This Subject elaborates on the steps for the preparation and evaluation of community nutrition programs; including the stages of situation analysis; problem prioritization and analysis; SWOT identification and analysis of problem-solving alternatives; determination of activity goals and targets; preparation of activity matrices; evaluation of program success for various nutritional problems, such as PEU, obesity, chronic fatigue, anemia, vitamin A deficiency, and iodine deficiency disorder; food safety and security.

NUM210 Epidemiology of Nutrition – 2 Credits

This Subject conveys the description and distribution of nutritional diseases, determinants and variables of nutritional diseases, validity and reliability of consumption and nutritional intake assessment with 24-hour dietary recall, validity and reliability of consumption and nutritional intake assessment with food frequency questionnaire, sensitivity and specificity of biochemical indicators of nutritional status, sensitivity and specificity of anthropometric assessment and body composition, bias in nutritional assessment, epidemiological research design, experimental research, dietetic data analysis and presentation, and nutritional surveillance.

BAE110 English – 2 Credits

This Subject discusses the introduction to English for academic purposes, grammar, vocabulary, and pronunciation. It conveys the strategies for various English skills in academic contexts. The reading and listening strategies in educational contexts cover the comprehension of the content and structure of verbal and written information. The reading and listening strategies are also employed for different purposes, such as input for completing an assignment, developing specific reading or listening skills, and using a dictionary to obtain lexical, phonological, and orthographical information. Meanwhile, written academic communication is delivered to identify and write standard functions in written academic disSubject; take notes from reading and listening inputs; understand and apply principles of academic text structure; develop paraphrasing, summarizing, and referencing skills; improve editing and proofreading skills; and achieve appropriate tone and style in academic writing. Besides that, spoken academic communication is conveyed for recognizing the purposes of and differences between spoken and written communication in English educational contexts, identifying and practicing interactional and linguistic aspects of participation in seminar discussions, discussing issues requiring the development and application of creative and critical thinking, and preparing and delivering oral presentations.

KNM401 Community Services – 3 Credits

Community Services or Community Outreach Programs (KKM-BBM) discusses the philosophy and basic concepts of community services, implementation of appropriate technology in rural areas, roles of students serving community services in rural development, identification of problems faced by rural communities, participation of rural communities in the development, communication with rural communities, and village and Family Empowerment Post (Posdaya) developments.

## Electives II

### NUM315 Vegetarian Nutrition – 2 Credits

This Subject conveys the history of vegetarianism, its description, types, and trends; vegetarian diet and risk factors for coronary heart disease; vegetarian diet and cancer risk; vegetarian diet and obesity prevention; vegetarian diet and osteoporosis and diabetes prevention; growth and development of vegetarian children and adolescents; vegetarian diet in pregnant women and breastfeeding mothers; vegetarian diet for the elderly; vegetarian diet for athletes; nutrients that need to be considered on a vegetarian diet; health-promoting phytochemicals; and vegetarian diet, dietary guidelines, and vegetarian food guide.

### PSO403 Consumer Behavior – 2 Credits

This Subject explains and provides an understanding of the concepts, definitions, characteristics, and benefits of nutrition science and the latest research concerning the marketing of nutritional products.

### NUM326 Geriatric Nutrition – 2 Credits

This Subject discusses the definition of geriatrics; the aging process, including physical, physiological, psychological, and hormonal changes; anthropometric measurements and determination for the nutritional status of the elderly; nutritional problems of the elderly; nutrition services for individuals and communities; dietary needs and menu planning in healthy and ill elderly; nutritional needs and menu planning in community nutrition services for elderly; antioxidants and activities for the elderly; myths related to elderly nutrition; and the implementation of elderly nutrition services.

### NUM327 Functional Food – 2 Credits

This Subject focuses on the concepts of probiotics, synbiotics, and para probiotics and phytochemicals as antioxidants. In addition, students can also explain the definition, characteristics, sources, metabolism, health benefits, and the latest research on several compounds in functional foods, such as sugar alcohol, dietary fibers, fermented metabolites like short-chain fatty acids (SCFA) and peptides, polyphenols, flavonoids, isoflavones, phytosterols and phytosterols, choline, lecithin, inositol, carnitine, squalene, and caffeine. Furthermore, students are expected to elaborate on the definition, characteristics, sources, metabolism, health benefits, and research on several compounds in nutraceuticals, such as glucosamine, chondroitin,



methylsulfonylmethane, coenzyme Q10, melatonin, octacosanol or policosanol, S-adenosyl methionine, monounsaturated (MUFA) and polyunsaturated fatty acids (PUFA), gamma-Linolenic acid (GLA), alpha-Linolenic acid (ALA), conjugated linoleic acid (CLA), flax lignin, pycnogenol, resveratrol, beta-glucan, lycopene, lutein, zeaxanthin, astaxanthin, lipoic acid, dehydroepiandrosterone, and keratin

## **G. SEMESTER 7**

NUM307 Current Nutrition Science and Technology – 2 Credits

This Subject is knowledge enrichment to train students' critical analysis of various issues in food and nutrition in Indonesia and worldwide, develop Undergraduate Thesis materials, and organize seminar events.

PNM498 Undergraduate Thesis Proposal - 2 Credits

This Subject focuses on the research proposal for the Undergraduate Thesis. The format discussed includes background, research questions, determination of research objectives and benefits, a literature review, concept framework, hypoUndergraduate Thesis, and research methods based on Major in nutrition, which is prepared following the applicable scientific writing rules.

KLM402 Community Nutrition Fieldwork – 4 Credits

This Subject discusses and practices directly in nutrition and food services, such as community health services (puskesmas), schools, orphanages, and sports centers. Students will focus on assessing the nutritional condition of individuals, families, or communities; planning and managing food services or nutrition interventions to maintain and improve the nutritional status and level of individuals or families and advocacy activities in dealing with dietary problems.

KLM403 Dietetics Fieldwork – 4 Credits

This Subject discusses and practices directly in hospitals on assessing patients' nutritional conditions, planning and managing dietetic services to patients, referring patients with dietary problems that cannot be handled alone, following up on self-managed and returning patients after referral, and operating hospital meal activities.

## **H. SEMESTER 8**

PNM499 Undergraduate Thesis – 4 Credits

A Undergraduate Thesis is the final project of the study that comprises the independent introduction of various scientific information on the nutrition of Major, aspects or problems of in-depth nutrition approaches, and the preparation of writings following the applicable scientific writing rules.

**CHAPTER XI**  
**LIST OF LECTURERS FACULTY OF PUBLIC HEALTH**  
**UNIVERSITAS AIRLANGGA**

**LIST OF ACTIVE SUBJECT LECTURERS**

<b>NO.</b>	<b>NAME</b>	<b>DEPARTMENT or DIVISION</b>	<b>NIP</b>
1	Prof.dr. Soedjajadi, MS. PhD.	Environmental Health	19520315 197903 1 008
2	Prof. dr. R. Bambang W., MS.MCN.PhD.SpGK	Nutrition	19490320 197703 1 002
3	Prof.Dr.dr. Stefanus Supriyanto, MS.	Health Administration and Policy	19490916 197802 1 001
4	Prof. Dr.dr. Chatarina U. Wahjuni, MS. MPH.	Epidemiology	19540916 198303 2 001
5	Prof. Dr. dr. Tri Martiana, MS.	Occupational Health and Safety	19560303 198701 2 001
6	Prof. Dr.drh. Ririh Yudhastuti, MSc.	Environmental Health	19591224 198701 2 001
7	Dr. Drs.M. Bagus Qomaruddin, MSc.	Health Promotion and Behavioral Science	19650216 199002 1 001
8	Dr. Ir. Lilis Sulistyorini, M.Kes.	Environmental Health	19660331 199103 2 002
9	Dr. Ir. Annis Catur Adi, MSi.	Nutrition	19690301 199412 1 001
10	Dr.dr. Arief Wibowo, MS.	Biostatistics and Population Studies	19590310 198601 1 001
11	Dr. dr.Hari Basuki Notobroto, M.Kes.	Biostatistics and Population Studies	19650625 199203 1 002
12	Prof. Dr. Sri Sumarmi, SKM. M.Si	Nutrition	19680625 199203 2 002
13	Dr. Ir. Mahmudah, M.Kes.	Biostatistics and Population Studies	19690110 199303 2 002
14	Dr. Rachmah Indawati, SKM. MKM.	Biostatistics and Population Studies	19660525 199303 2 002

<b>NO.</b>	<b>NAME</b>	<b>DEPARTMENT or DIVISION</b>	<b>NIP</b>
15	Prof. Dr. drg. Nyoman Anita Damayanti, MS.	Health Administration and Policy	19620228 198911 2 001
16	Dra. Endang Dwiyantri, M.Kes.	Occupational Health and Safety	19661023 199303 2 001
17	Dr. Dra.Ec. Thinni Nurul Rochmah, M.Kes.	Health Administration and Policy	19650211 199103 2 002
18	Dr.Ir. Rr. Soenarnatalina Melaniani, M.Kes.	Biostatistics and Population Studies	19601225 199003 2 001
19	Dr. Indriati Paskarini, SH. M.Kes.	Occupational Health and Safety	19660411 199103 2 001
20	Dr. Fariani Syahrul, SKM. M.Kes.	Epidemiology	19690210 199403 2 002
21	Dr. Djazuly Chalidyanto, SKM. MARS.	Health Administration and Policy	19711108 1998021001
22	Dr. Drs. Mohammad Zainal Fatah, MS. M.Kes.	Health Promotion and Behavioral Science	19600416 199403 1 002
23	Dr.Ir. Yustinus Denny Ardyanto W., MS.	Occupational Health and Safety	19631215 199802 1 001
24	Dr. Drs. Abdul Rohim Tualeka, M.Kes.	Occupational Health and Safety	19661124 199803 1 002
25	Retno Adriyani, ST. M.Kes.	Environmental Health	19750609 200312 2 001
26	Lailatul Muniroh, SKM. M.Kes.	Nutrition	19800525 200501 2 004
27	Dr. drg. Arief Hargono, M.Kes.	Epidemiology	19730126 199802 1 001
28	Dr. Lucia Yovita Hendrati, SKM. M.Kes.	Epidemiology	19681019 199503 2 001
29	Dr. Lutfi Agus Salim, SKM. MSi.	Biostatistics and Population Studies	19700820 199702 1 001
30	Dr. drg. Ernawaty, M.Kes.	Health Administration and Policy	19660420 199203 2 002

<b>NO.</b>	<b>NAME</b>	<b>DEPARTMENT or DIVISION</b>	<b>NIP</b>
31	Dr. Noeroel Widajati, SKM. MSc.	Occupational Health and Safety	19720812 200501 2 001
32	Dr. Diah Indriani, SSi. MSi.	Biostatistics and Population Studies	19760503 200212 2 001
33	Dr. Nunik Puspitasari, SKM. M.Kes.	Biostatistics and Population Studies	19670924 199203 2 004
34	Dr. dr. Santi Martini, M.Kes.	Epidemiology	19660927 199702 2 001
35	Dr. drg. Setya Haksama, M.Kes.	Health Administration and Policy	19650914 199601 1 001
36	Dr. R. Azizah, SH. M.Kes.	Environmental Health	19671231 199303 2 003
37	Sudarmaji, SKM. M.Kes.	Environmental Health	19721210 199702 1 001
38	Dr. Muji Sulistyowati, SKM. M.Kes.	Health Promotion and Behavioral Science	19731115 199903 2 002
39	Dr. Ratna Dwi Wulandari, SKM. M.Kes.	Health Administration and Policy	19751018 199903 2 002
40	Dr.dr. Windhu Purnomo, MS.	Biostatistics and Population Studies	19540625 198303 1 002
41	Dr. Sri Widati, S.Sos. MSi	Health Promotion and Behavioral Science	19770116 200501 2 002
42	Dr. Siti Rahayu Nadhiroh, SKM. M.Kes.	Nutrition	19750531 200604 2 001
43	Ira Nurmala, SKM, MPH, Ph.D.	Health Promotion and Behavioral Science	19771017 200312 2 001
44	Dr. dr. Muhammad Atoillah Isfandiari. M.Kes	Epidemiology	19760325 200312 1 002
45	Trias Mahmudiono, SKM. MPH, GCAS, Ph.D.	Nutrition	19810324 200312 1 001
46	Pulung Siswantara, SKM, M.Kes	Health Promotion and Behavioral Science	19820424 200501 1 001

<b>NO.</b>	<b>NAME</b>	<b>DEPARTMENT or DIVISION</b>	<b>NIP</b>
47	Corie Indria Prasasti, SKM. M.Kes.	Environmental Health	19810510 200501 2 001
48	Dr. Dra. Shrimarti Rukmini Devy, M.Kes.	Health Promotion and Behavioral Science	19660215 200212 2 002
49	Triska Susila Nindya, SKM, MPH	Nutrition	19811003 200501 2 001
50	dr. Farapti, M.Gizi	Nutrition	19810414 200812 2 001
51	Inge Dhamanti, SKM. M.Kes, M.PH, Ph.D.	Health Administration and Policy	19801224 200501 2 002
52	Dini Ririn Andrias, SKM, M.Sc	Nutrition	19810105 200501 2 003
53	Hario Megatsari, SKM. M.Kes.	Health Promotion and Behavioral Science	19820912 200801 1 006
54	Nurul Fitriyah, SKM, MPH	Biostatistics and Population Studies	19751121 200501 2 002
55	dr. Kurnia Dwi Artanti, M.Sc	Epidemiology	19820411 200812 2 002
56	Tito Yustiawan, drg., M.Kes	Health Administration and Policy	19790521 201012 1 003
57	Dr. dr. Atik Choirul Hidajah, M.Kes.	Epidemiology	19681102 199802 2 001
58	drh. Meirina Ernawati, M.Kes.	Occupational Health and Safety	19620512 199303 2 001
59	Yuly Sulistyorini, SKM. M.Kes.	Biostatistics and Population Studies	19760724 200801 2 007
60	dr. Kusuma Scorpia L., MKM	Environmental Health	19801107 200812 2 003
61	Maya Saridewi, SKM. M.Kes.	Health Administration and Policy	19800927 200501 2 003
62	Khuliyah Candraning Diyanah, SKM, M.KL	Environmental Health	19861110 201212 2 002
63	Nuzulul Kusuma Putri, SKM, M.Kes	Health Administration and Policy	19880503 201404 2 004

<b>NO.</b>	<b>NAME</b>	<b>DEPARTMENT or DIVISION</b>	<b>NIP</b>
64	Sigit Ari Saputro, S.KM, M.Kes	Biostatistics and Population Studies	19890425 201404 1 002
65	dr. M. Farid Dimjati Lusno, M.KL	Environmental Health	19720424 200812 1 002
66	Muthmainnah, S.KM, M.Kes	Health Promotion and Behavioral Science	19880621 201504 2 005
67	Dani Nasirul Haqi, S.KM, M.KKK	Occupational Health and Safety	19871111 201504 1 005
68	Ayik Mirayanti Mandagi, SKM, M.Kes	Epidemiology	19880122 201504 2 002
69	Syifa'ul Lailiyah, S.KM, M.Kes	Health Administration and Policy	19850819 201504 2 001
70	Riris Diana Rachmayanti, SKM, M.Kes	Health Promotion and Behavioral Science	19860904 201504 2 001
71	Ilham Akhsanu Ridlo, S.KM, M.Kes	Health Administration and Policy	19860323 201504 1 003
72	Rian Diana, S.P., M.Si	Nutrition	19840505 201504 2 001
73	Septa Indra Puspikawati, SKM, MPH	Nutrition	19890929 201504 2 003
74	Mahmud Aditya Rifqi, S.Gz, M.Si	Nutrition	19881207 201504 1 003
75	Desak Made Sintha Kurnia Dewi, SKM, M.Kes	Biostatistics and Population Studies	19850615 201504 2 005
76	Laura Navika Yamani, S.Si, M.Si, Ph.D.	Epidemiology	198601082018032001
77	Erni Astutik, S.K.M., M.Epid	Epidemiology	19890718 201504 3201
78	Dominikus Raditya Atmaka, S.Gz., M.PH	Nutrition	199206182019027201
79	Shintia Yunita Arini, S.KM, M.KKK	Occupational Health and Safety	199306042019027401

**DOSEN TETAP NON PNS**

<b>NO.</b>	<b>NAMA</b>	<b>DEPARTEMEN atau DIVISI</b>	<b>NIK</b>
1	Susi Katikana Sebayang, SP., M.Sc, Ph.D.	Biostatistics and Population Studies	19730305 201504 3201
2	Diansanto Prayogo, SKM, M.Kes	Health Administration and Policy	19860412 201504 3101
3	Jayanti Dian Eka Sari, S.KM., M.Kes	Health Promotion and Behavioral Science	19840917 201504 3201
4	Aditya Sukma Pawitra, SKM, M.KL	Environmental Health	19880409 201611 3101
5	Putri Ayuni Alayyannur, SKM, M.KKK	Occupational Health and Safety	19900602 201611 3201
6	Stefania Widya Setyaningtyas, S.Gz, M.PH	Nutrition	198808302018083201
7	Qonita Rachmah, S.Gz, M.Sc	Nutrition	199102152018083201
8	Zida Husnina, S.KM, M.PH	Environmental Health	198401112018083201
9	Eny Qurniyawati, S.ST, M.Kes	Epidemiology	198808222019027201
10	Emyr Reisha Isaura, S.Gz., MPH., Ph.D	Nutrition	198812032019083201
11	Anisa Lailatul Fitria, S.Gz., M.Sc	Nutrition	199303242022013201



**DOSEN HONORER**

<b>NO.</b>	<b>NAMA</b>	<b>DEPARTEMEN atau DIVISI</b>	<b>NIK</b>
1	Dr.dr. Rachmat Hargono, MS. M PH.	Health Promotion and Behavioral Science	194904272021010308
2	Prof. Dr. Wasis Budiarto, Drs., M.S.	Health Administration and Policy	195208022017016101
3	Dr.dr.Sri Adiningsih, MS. MCN.	Nutrition	195006262016076201
5	Prof.Dr.dr. H.J. Mukono, MS. MPH.	Environmental Health	194706172017106101
6	Prof. dr. Kuntoro, MPH. Dr.PH.	Biostatistics and Population Studies	194808082018106101
7	Mulyono, SKM. M.Kes.	Occupational Health and Safety	195509192021010064
8	dr. Sho'im Hidayat, MS.	Occupational Health and Safety	195411272021010304

**BAB XII**  
**LIST OF ADMINISTRATIVE STAFF**  
**FACULTY OF PUBLIC HEALTH UNIVERSITAS**  
**AIRLANGGA**

No	Name	NIP
<b>Bachelor Program of Public Health Surabaya</b>		
1	Agung Perbowo Darma Putra	198611192018035101
2	Puguh Suroto, S.Sos	197501292001121001
3	Heri Pranoto, SE	197403222007011001
4	Yudi Purniawan, ST	197710021999031004
5	Nosa Hastaranie, SE	197803162018035201
6	Pendik Santoso	198603082018035101
7	Chasanah Tri Mandasari	199301172018013201
8	Agus Siswanto	197308112007011001
9	Ahmad Triyono	197206112007011002
10	Mukhammad Hufron	197007042007011002
11	Rini Suprapti	197111082001122001
12	Nanik Sulistyaningsih, SE	197103152007012001
13	Purwanta, S.Sos	197005292007011001
14	Yusdi Tri Atmaja K., A.Md.	198406012018035101
15	Muriyani, SE	197704292007012001
<b>Bachelor Program of Nutrition</b>		
1	Ekka Putri Arifianty, S.Gz	198705072018013201
2	Harlina Aisyatur Rahmah, A.Md	197104212007012002
<b>Bachelor Program of Public Health SIKIA</b>		
1	Irawati, S.H	197106052008102001
2	Chintya Devi, S.KM	3510166312960002
3	Supriyanto	3510150104950001