



**MINISTRY OF EDUCATION, CULTURE,
RESEARCH, AND TECHNOLOGY
UNIVERSITY OF BENGKULU**

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DECISION OF THE RECTOR OF NIVERSITAS BENGKULU
NUMBER : 2078/UN30/HK/2021

ABOUT

CURRICULUM OF GEOPHYSICS STUDY PROGRAM UNDERGRADUATE
PROGRAM
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
BENGKULU UNIVERSITY IN 2021

RECTOR OF BENGKULU UNIVERSITY

- Trive :
- a) That to support the program Merdeka Belajar : Kampus Merdeka (MB-KM) and Implementation of Aademic Activities for Vocational, Undergraduate, Professional and Postgraduate Education Programs of UNiversitas Bengkulu, it is necessary to revise the educational curriculum;
 - b) that in the implementation of education in higher education, the curriculum has an important function to produce quality graduates in accordance with the special competencies of the study program;
 - c) that the regulation of this curriculum adapts to the development of education and the needs of society in anticipation of world developments;
 - d) that in connection with items (a), (b), and (c) above it is necessary to establish a Chancellor's Decree.

- Considering
- 1. Law of the Republic of Indonesia Number 20 of 2003 concerning the National Education System (Statute Book of the Republic of Indonesia Number 78, Supplement to the State Gazette of the Republic of Indonesia Number 4301);
 - 2. Law of the Republic of Indonesia Number 14 of 2005 concerning Teachers and Lecturers
 - 3. Indonesian Repulic Law Number 12 of 2012 concerning Higher Education (Statute Book of the Republic of Indonesia of 2012 Number 158, Supplement to the State Gazette of the Republic of Indonesia Number 5336)
 - 4. Law of the Republic of Indonesia Number 5 of 2014 concerning the State Civil Apparatus (Statute Book of the Republic of Indonesia of 2014 Number 6, Supplement to the State Gazette of the Republic of Indonesia of 2014 Number 5994)
 - 5. Government Regulation of the Republic of Indonesia Number 37 of 2009 concerning Lecturers;

6. Regulation of the Government of the Republic of Indonesia Number 4 of 2014 concerning the Implementation of Higher Education and Management of Higher Education (Statute Book of the Republic of Indonesia of 2014 Number 16, Supplement to the State Gazette of the Republic of Indonesia Number 5500)
7. Presidential Decree of the Republic of Indonesia Number 17 of 1982 concerning the Establishment of Bengkulu University;
8. Regulation of the Minister of Education and Culture Number 63 of 2013 concerning Organization and Work Procedures (OTK) of Bengkulu University (State Gazette of the Republic of Indonesia of 2013 Number 782);
9. Regulation of the Minister of Education and Culture Number 75 of 2013 concerning the Status of Bengkulu University (State Gazette of the Republic of Indonesia in 2013 Number 847);
10. Regulation of the Minister of Research, Technology and Higher Education of the Republic of Indonesia Number 33 of 2018 concerning Naming of Study Programs in Higher Education Level
11. Regulation of the Minister of Education and Culture Republic of Indonesia Number 3 of 2020 concerning National Standards for Higher Education;
12. Regulation of the Minister of Education and Culture of the Republic of Indonesia Number: 4 of 2020 concerning amendments to ministerial regulations. education and culture Number 88 of 2014 ranges from Changes in State Universities to State Universities as Legal Entities;
13. Regulation of the Minister of Education and Culture of the Republic of Indonesia Number 5 of 2020 concerning Accreditation of Study Programs and Higher Education;
14. Regulation of the Minister of Education and Culture of the Republic of Indonesia Number 6 of 2020 concerning New Student Admissions for Undergraduate Programs at State Universities;
15. Regulation of the Minister of Education and Culture of the Republic of Indonesia Number 7 of 2020 concerning the Establishment, Amendment, Dissolution of State Universities, and the Establishment, Dissolution, Revocation of Permits for Private Universities;
16. Decree of the Minister of Research, Technology and Higher Education Number 412/M/KPT.KP/2017 concerning the Dismissal and Appointment of the Chancellor of the University of Bengkulu for the 2017-2021 Period;
17. Regulation of the Chancellor of the University of Bengkulu Number 25 of 2020 concerning the Implementation of Academic Activities for the Vocational, Undergraduate, Professional and Postgraduate Education Program at Bengkulu University;

DECIDE :

- Assign : DECREE OF THE RECTOR OF THE UNIVERSITY OF BENGKULU REGARDING THE CURRICULUM OF THE GRADUATE STUDY PROGRAM OF GEOPHYSICS, FACULTY OF MATHEMATICS AND NATURAL SCIENCES, UNIVERSITY OF BENGKULU IN 2021.
- FISRT : Establishing the Geophysics Study Program Learning Curriculum. The Undergraduate Program of the Faculty of Mathematics and Natural Sciences, Bengkulu University, as stated in the appendix which is an integral part of this Rector's Decree.
- SECOND : The Learning Curriculum of the Geophysics Study Program of the Undergraduate Mathematics and Natural Sciences Faculty of Bengkulu University in 2021 applies to students of the 2021 and subsequent batches.
- THIRD : Matters relating to the implementation of the 2021 Curriculum will be regulated separately through the Decree of the Dean of the Faculty of Mathematics and Natural Sciences, Bengkulu University.
- FOURTH : This Decree is effective as of the date of stipulation, provided that if there is an error in this decision, it will be corrected accordingly.

Stipulated In Bengkulu
On August 19, 2021
RECTOR



RIDWAN NURAZI
NIP. 196009151989031004

The distribution of semester courses:

No.	Course Code	Course Title	credit
Semester 1			
1	MKU-101	Religion Education	3 (1-2)
2	MKU-102	Pancasila	2 (2-0)
3	GFS-101	Basic Physics I	2 (2-0)
4	GFS-102	Basic Physics Experimen I	4 (4-0)
5	GFS-103	Introduction to Geophysics	1 (0-1)
6	GFS-104	Geochemistry	3 (3-0)
7	GFS-105	Calculus I	2 (2-0)
8	GFS-106	Geology	4 (4-0)
Total			20 (16-4) = 30.2 ECTS
Semester 2			
1	MKU-103	Bahasa Indonesia	3 (1-2)
2	MKU-104	Civil Education	2 (1-1)
3	MKU-105	English	2 (1-1)
4	MKU-106	Computer and Programming (Coding)	3 (1-2)
5	GFS-107	Basic Physics II	3 (3-0)
6	GFS-108	Basic Physics Experimen II	1 (0-1)
7	GFS-109	Basic Electronics	3 (2-1)
8	GFS-110	Calculus II	3(3-0)
Total			20 (12-8) = 30.2 ECTS
Semester 3			
1	GFS-201	Rock Physics	2 (2-0)
2	GFS-202	Digital Electronics	3 (2-1)
3	GFS-203	Mathematical Geophysics	3 (3-0)
4	GFS-204	Wave Propagation	3 (3-0)
5	GFS-205	Electromagnetic	4 (4-0)
6	GFS-206	Gravity Method	2 (2-0)

7	GFS-207	Geostatics	3 (3-0)
total			20 (19-1) = 30.2 ECTS
Semester 4			
1	GFS-208	Seismology	3 (3-0)
2	GFS-209	Microseismic	3 (2-1)
3	GFS-210	Inversion Method	2 (2-0)
4	GFS-211	Geophysical Computing	3 (2-1)
5	GFS-212	Structural Geology	3 (3-0)
6	GFS-213	Geophysical Instrumentation	3 (3-0)
7	GFS-214	Geomagnetic	3 (2-1)
Total			20 (17-3) = 30.2 ECTS
Semester 5			
1	GFS-301	Geoelectric Exploration	3 (2-1)
2	GFS-302	Seismic Exploration	3 (2-1)
3	GFS-303	Electromagnetic Exploration	3 (2-1)
4	GFS-304	Sedimentation and Stratigraphy	3 (3-0)
5	GFS-305	Geophysical Data Processing	2 (2-0)
6	GFS-306	Geodynamics	3 (3-0)
7	GFS-307	Geographical Information System	3 (2-1)
Total			20 (16-4) = 30.2 ECTS
Semester 6			
1	MKU-300	Entrepreneurship	2 (1-1)
2		Elective courses	16
total			18 = 27.18 ECTS
Semester 7			
1	MKU-400	Community Service	4 (0-4)
2		Elective courses	16

Total			20 = 30.2 ECTS
Semester 8			
1	GFS-420	Scientific Publications	2 (0-2)
2	GFS-421	Thesis	4 (0-4)
Total			6 (0-6) = 9.06 ECTS

ELECTIVE COURSES

No.	MK Code	Course Name	SKS
Odd Semester			
1	GFS-308	Geotomography	3 (3-0)
2	GFS-309	Mineral Deposits Exploration	3 (3-0)
3	GFS-310	Carbonate Exploration	3 (3-0)
4	GFS-311	Meteorology and Climatology	2 (2-0)
5	GFS-312	Field Practice	3 (0-3)
6	GFS-313	Psychology	2 (2-0)
7	GFS-314	Applied Seismology	3 (3-0)
8	GFS-315	Energy Generator	2 (2-0)
9	GFS-316	Geophysical Digital Data Analysis	3 (3-0)
10	GFS-317	Groundwater Exploration	3 (3-0)
Total			27 (24-3) = 40.77 ECTS
Even Semester			
1	GFS-401	Data Acquisition System	2 (2-0)
2	GFS-402	Research Methodology and Scientific Writing	2 (1-1)
3	GFS-403	Geothermal Exploration	2 (2-0)
4	GFS-404	Exploration Management	2 (2-0)
5	GFS-405	Introduction to Disaster	2 (2-0)
6	GFS-406	Remote Sensing	3 (2-1)
7	GFS-407	Field Research Project	3 (2-1)

8	GFS-408	Volcanic Physics	2 (2-0)
9	GFS-409	Geothermodynamics	2 (2-0)
10	GFS-410	Nanotechnology	2 (2-0)
Total			22 (19-3) = 33.22 ECTS
Additional Competency Courses (UNIB Elective Courses for MBKM Recognition)			
1	KMU-001	Problem Solving	2 (2-0)
2	KMU-002	Self management	2 (2-0)
3	KMU-003	Responsibility	2 (2-0)
4	KMU-004	Communicating Ability	2 (2-0)
5	KMU-005	Cooperation Ability	2 (2-0)
6	KMU-006	Leadership	2 (2-0)
7	KMU-007	Creativity	2 (2-0)
8	KMU-008	Hard work	2 (2-0)
9	KMU-009	Think critically	2 (2-0)
10	KMU-010	New Literacy	2 (2-0)
Total			20 (20-0) = 30.2 ECTS

Then, the MBKM-based program gives students the right to study outside the curriculum. The list of non-curricular activities that students can participate in is shown in Figure 1. Students can complete non-curricular activities in 8 other activities that will be converted and recognized as courses in the curriculum.



Figure 1. Activities Outside the Study Program.