



**CURRICULUM 2021 (MBKM OBE CURRICULUM)**

No.	Old Code	New Code	Course Name		Credit	Type of Course
			PRODUCTION	AUTOMOTIVE		
<b>SEMESTER 1</b>						
1	PK2216104	02213112009	Pancasila Education		2	National Higher Education
2	PK2216103	02213122001	Engineering English (English for Academic Purpose)		2	Compulsory-MEEP
3	KK2221101	02213132001	Educational Science		2	Compulsory-Faculty
4	KK2221102	02213132002	Student Development		2	Compulsory-Faculty
5	KB2221101	02213142002	Engineering Physics		2	Compulsory-MEEP
6	KB2216106	02213142003	<u>Practice of Bench Works</u>		2	Compulsory-MEEP
7	KB2216107	02213143004	Engineering Mathematics		3	Compulsory-MEEP
8	KB2218104	02213142005	Machining Theory		2	Compulsory-MEEP
9	KB2216110	02213143006	Mechanical Drawing		3	Compulsory-MEEP
<b>Total Credit</b>					<b>20</b>	
<b>SEMESTER 2</b>						
10	PK2216201	02213212xxx	Religious Education*)		2	National Higher Education
11	KK2221201	02213232003	Guidance and Counseling		2	Compulsory-Faculty
12	KB2218202	02213242007	Welding Technology		2	Compulsory-MEEP
13	KB2221201	02213242008	Engineering Mechanics		2	Compulsory-MEEP
14	KB2221202	02213242009	Occupational Health & Safety (K3)		2	Compulsory-MEEP
15	KB2218203	02213243010	Thermodynamics & Heat Transfer		3	Compulsory-MEEP
16	KB2221203	02213242011	Combustion Engine		2	Compulsory-MEEP
17	KB2216207	02213242012	Industrial Metrology		2	Compulsory-MEEP
18	KB2218201	02213242013	<u>Practice of Machining</u>		2	Compulsory-MEEP
19	KB2216205	02213242014	Engineering Chemistry		2	Compulsory-MEEP
<b>Total Credit</b>					<b>21</b>	
<b>SEMESTER 3</b>						
20	KK2221301	02213332004	Inclusive Education		2	Compulsory-Faculty
21	KB2221301	02213342015	Mechanics of Material		2	Compulsory-MEEP
22	KB2216302	02213342016	Electricity & Electronics		2	Compulsory-MEEP
23	KB2216303	02213342017	Machine Elements		2	Compulsory-MEEP
24	KB2218301	02213343018	Material Science & Metallurgy		3	Compulsory-MEEP
25	KB2216305	02213342019	Fluid Mechanics		2	Compulsory-MEEP
26	KB2221302	02213342020	<u>Practice of Combustion Engine</u>		2	Compulsory-MEEP
27	KB2218302	02213342021	Computer Aided Design 1		2	Compulsory-MEEP
28	KB2218303	02213342022	<u>Practice of Welding</u>		2	Compulsory-MEEP
29	KK2221302	02213342023	Education Profesion		2	Compulsory-MEEP
<b>Total Credit</b>					<b>21</b>	

SEMESTER 4						
30	KB2221401	02213442024	Machine Dynamics		2	Compulsory-MEEP
31	KB2221402	02213442025	Learning Method & Strategy		2	Compulsory-MEEP
42	PK2221501	02213412010	Indonesian Language		2	National Higher Education
33	KB2218403	02213442026	Computer Aided Design 2		2	Compulsory-MEEP
34	KK2221401	02213432005	Digital Classroom Management		2	Compulsory-Faculty
35	KB2221403/ KB2221404	02213442027 / 02213442059	Practice of Advanced Machining	72. Practice of Advanced Engine Combustion	2	Compulsory-MEEP
36	KB2218407/ KB2221405	02213442028 / 02213442060	Maintenance of Industrial Machinery Mechanics	73. Motorcycle Technology (T)	2	Compulsory-MEEP
37	KB2221406/ KB2221407	02213442029 / 02213442061	Practice of Advanced Welding	74. Practice of Motorcycle Maintenance & Repair	2	Compulsory-MEEP
38	KB2218401/ KB2214407	02213442030 / 02213442062	Computer Numerical Controlled (TP)	75. Automotive Electricity	2	Compulsory-MEEP
39	KB2218406/ KB2218402	02213442031 / 02213442063	Casting Technology	76. Chassis (T)	2	Compulsory-MEEP
<b>Total Credit</b>					<b>20</b>	
SEMESTER 5						
40	PB2221501	02213542032	Curriculum Review & Development of Vocational Education		2	Compulsory-MEEP
41	KB2211501	02213542033	Statistics		2	Compulsory-MEEP
32	PB2214401	02213442034	Instructional Design		2	Compulsory-MEEP
43	PK2221502	02213512008	Civic Education		2	National Higher Education
44	PB2211502	02213542035	Learning Assessment		2	Compulsory-MEEP
45	PK2221503	02213542036	Basic Knowledge of Vocational Education		2	Compulsory-MEEP
46	KB2221501	02213542037	Pump & Compressor		2	Compulsory-MEEP
47	KB2221502	02213542038	Turbine		2	Compulsory-MEEP
48	KB2218501/ KB2218502	02213542039 / 02213542064	Computer Aided Manufacturing	77. Practice of Chassis	2	Compulsory-MEEP
49	KB2218505/ KB2211505	02213542040 / 02213542065	Machine Design	78. Practice of Automotive Electricity	2	Compulsory-MEEP
<b>Total Credit</b>					<b>20</b>	
SEMESTER 6						
50	KK2221601	02213626002	<b>INDUSTRIAL INTERNSHIP</b>		6	Compulsory-UNS
			3 months duration, start on February			
51	KB2212601	02213642041	Micro Teaching		2	Compulsory-MEEP
52	KB2221602/ KB2221603	02213642042 / 02213642066	Machine Shop Management	79. Management of Auto Shop	2	Compulsory-MEEP
53	KB2221604/ KB2221605	02213642043 / 02213642067	Cooling Systems	80. Car Air Conditioning	2	Compulsory-MEEP
54	PP2218601	02213642044	Research Methods		2	Compulsory-MEEP
55	KB2218601	02213542045	Lifting Equipment		2	Compulsory-MEEP
56	KB2212612	02213652046	Aerodynamics		2	The student could choose 4 credit of the elective courses
57	KB2216604	02213652047	Steam Generating System		2	
58	KB2212614	02213652048	Material Technology		2	
59	KB2212614	02213652049	Composite		2	
60	KB2221606	02213652050	Renewable Energy		2	
<b>Total Credit</b>					<b>20</b>	

SEMESTER 7						
61	KK2221701	02213744051	PLP (Educational Internship)		4	Compulsory-MEEP
62	PK2218701	02213722003	Entrepreneurship		2	Compulsory-UNS
63	BB2212701	02213722001	Student Community Service (KKN)		2	Compulsory-UNS
64	KB2218704/ KB2211704	02213742052 / 02213742068	Automation of Production System	81. Automotive Body	2	Compulsory-MEEP
65	KB2221701/ KB2221702	02213742053 / 02213742069	Non-Conventional Machining	82. Heavy Equipment Technology	2	Compulsory-MEEP
66	KB2211707	02213752054	Quality Control		2	The student could choose 4 credit of the elective courses
67	KB2211708	02213752055	Corrosion		2	
68	KB2211709	02213752056	Coating & Painting		2	
69	KB2212717	02213752057	Ergonomic		2	
70	KB2221703	02213752058	Jig & Fixture		2	
<b>Total Credit</b>					<b>16</b>	
SEMESTER 8						
71	KB2211805	02213846004	Final project		6	Compulsory-UNS
<b>Total Credit</b>					<b>6</b>	
<b>Full Total Credit</b>					<b>144</b>	

#### Additional Religion Course Code

10		02213212xxx	Details of Religion Course		
		02213212001	Buddhist Religious Education		
		02213212002	HINDU Religious Education		
		02213212003	Islamic education		
		02213212004	Catholic Religious Education		
		02213212005	KONG HU CU Religious Education		
		02213212006	Christian education		
		02213212007	OTHER Religious Education		

#### Updated data 12 August 2021:

1. Religious Education courses are now broken down by religion according to LPPMP guidelines.
2. According to LPPMP instructions, the Indonesian language course was moved from Semester 5 to Semester 4.
3. Instructional Design is replaced with Indonesian Language for Semester 5.
4. The serial number of the courses that are shifted to unordered to maintain the CPMK Prodi database
5. EAP is no longer mandatory for UNS, it can be held alone in Study Program if agreed.

Surakarta, 12 Agustus 2021