

SUSTAINABILITY COURSES/SUBJECTS OFFERED**FACULTY OF INDUSTRIAL AND MANUFACTURING TECHNOLOGY AND ENGINEERING (FTKIP)**

No.	Course Code	Course Name	Programme	SDG
1	DTKW 1012	BASIC CULTURAL ENTREPRENEURSHIP	Diploma of Manufacturing Engineering (DMF)	8
2	DMFM 1283	ENGINEERING PHYSICS	Diploma of Manufacturing Engineering (DMF)	9
3	DMFM 1213	ENGINEERING MATHEMATICS	Diploma of Manufacturing Engineering (DMF)	9
4	DENE 1113	ELECTRIC & ELECTRONIC PRINCIPLE	Diploma of Manufacturing Engineering (DMF)	7,9
5	DMFD 1323	MANUFACTURING PROCESS	Diploma of Manufacturing Engineering (DMF)	9
6	DMFM 1253	ENGINEERING MATERIAL	Diploma of Manufacturing Engineering (DMF)	9
7	DMFD 1133	ENGINEERING GRAPHIC AND CAD	Diploma of Manufacturing Engineering (DMF)	9
8	DMFD 1823	STATICS	Diploma of Manufacturing Engineering (DMF)	9
9	DMFD 1843	THERMO-FLUIDS	Diploma of Manufacturing Engineering (DMF)	9
10	DMFD 1313	MANUFACTURING PRACTISE	Diploma of Manufacturing Engineering (DMF)	9
11	DMFM 2122	CAD/CAM	Diploma of Manufacturing Engineering (DMF)	9
12	DMFD 1833	APPLIED DYNAMICS	Diploma of Manufacturing Engineering (DMF)	9
13	DMFD 1231	ENGINEERING SEMINAR	Diploma of Manufacturing Engineering (DMF)	9
14	DMFM 2273	ENGINEERING STATISTIC	Diploma of Manufacturing Engineering (DMF)	9

No.	Course Code	Course Name	Programme	SDG
15	DMFD 2822	DIPLOMA PROJECT I	Diploma of Manufacturing Engineering (DMF)	9
16	DMFD 2853	MECHANICS OF MATERIALS	Diploma of Manufacturing Engineering (DMF)	9
17	DMFD 2413	FLUID POWER	Diploma of Manufacturing Engineering (DMF)	9
18	DMFD 2433	INSTRUMENTATION & CONTROL	Diploma of Manufacturing Engineering (DMF)	9
19	DMFD 2422	JIGS AND FIXTURES	Diploma of Manufacturing Engineering (DMF)	9
20	DMFD 2342	QUALITY CONTROL	Diploma of Manufacturing Engineering (DMF)	9
21	DMFD 2512	TOTAL PRODUCTIVE MAINTENANCE	Diploma of Manufacturing Engineering (DMF)	9
22	DMFD 2832	DIPLOMA PROJECT II	Diploma of Manufacturing Engineering (DMF)	9
23	DMFD 2563	INDUSTRIAL AUTOMATION	Diploma of Manufacturing Engineering (DMF)	9
24	DMFD 2333	CNC TECHNOLOGY	Diploma of Manufacturing Engineering (DMF)	9
25	DMFD 2382	OCCUPATIONAL SAFETY AND HEALTH	Diploma of Manufacturing Engineering (DMF)	11
26	DMFD 2513	MANUFACTURING MANAGEMENT	Diploma of Manufacturing Engineering (DMF)	9
27	DMFU 3368	INDUSTRIAL TRAINING	Diploma of Manufacturing Engineering (DMF)	9
28	BMFS 1122	MANUFACTURING WORKSHOP	Bachelor of Manufacturing Engineering (BMFG)	9
29	BMFB 1223	STRENGTH OF MATERIALS	Bachelor of Manufacturing Engineering (BMFG)	9

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30	BMFB 1221	ENGINEERING LAB I	Bachelor of Manufacturing Engineering (BMFG)	9
31	BMFA 2123	DYNAMICS	Bachelor of Manufacturing Engineering (BMFG)	9
32	BMFR 2213	THERMO FLUIDS	Bachelor of Manufacturing Engineering (BMFG)	9
33	BMFS 2613	MANUFACTURING PROCESS	Bachelor of Manufacturing Engineering (BMFG)	9
34	BEKG 2433	ENGINEERING MATHEMATICS II	Bachelor of Manufacturing Engineering (BMFG)	9
35	BMFP 2223	QUALITY CONTROL	Bachelor of Manufacturing Engineering (BMFG)	9
36	BMFS 2623	ADVANCED MANUFACTURING PROCESS	Bachelor of Manufacturing Engineering (BMFG)	9
37	BMFA 2121	ENGINEERING LAB II	Bachelor of Manufacturing Engineering (BMFG)	9
38	BMFG 3213	ENGINEERING ECONOMY AND MANAGEMENT	Bachelor of Manufacturing Engineering (BMFG)	9,11
39	BMFR 3513	PRODUCT DESIGN AND MANUFACTURING	Bachelor of Manufacturing Engineering (BMFG)	9
40	BMFR 3313	MECHANICS OF MACHINE	Bachelor of Manufacturing Engineering (BMFG)	9
41	BMFB 3323	MATERIAL SELECTION	Bachelor of Manufacturing Engineering (BMFG)	9
42	BMFA 3213	INDUSTRIAL AUTOMATION	Bachelor of Manufacturing Engineering (BMFG)	9
43	BMFP 3111	ENGINEERING LAB III	Bachelor of Manufacturing Engineering (BMFG)	9
44	BMFU 3223	INTEGRATED DESIGN PROJECT	Bachelor of Manufacturing Engineering (BMFG)	9

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45	BMFP 3122	MANUFACTURING SUSTAINABILITY	Bachelor of Manufacturing Engineering (BMFG)	9
46	BMFP 3423	INDUSTRIAL ENGINEERING	Bachelor of Manufacturing Engineering (BMFG)	9
47	BMFR 3223	CAD/CAM/CAE	Bachelor of Manufacturing Engineering (BMFG)	9
48	BMFA 3313	CONTROL SYSTEMS	Bachelor of Manufacturing Engineering (BMFG)	9
49	BMFU 3935	INDUSTRIAL TRAINING	Bachelor of Manufacturing Engineering (BMFG)	9
50	BMFU 4912	BACHELOR'S DEGREE PROJECT I	Bachelor of Manufacturing Engineering (BMFG)	9
51	BMFP 4413	MANUFACTURING MANAGEMENT	Bachelor of Manufacturing Engineering (BMFG)	9
52	BMFS 4613	CNC MACHINING	Bachelor of Manufacturing Engineering (BMFG)	9
53	BMFU 4924	BACHELOR DEGREE PROJECT II	Bachelor of Manufacturing Engineering (BMFG)	9
54	BMFU 4322	ENGINEER AND SOCIETY	Bachelor of Manufacturing Engineering (BMFG)	9,11
55	BMFU 4321	ENGINEERING SEMINAR	Bachelor of Manufacturing Engineering (BMFG)	9
56	BMFA 4213	MECHATRONICS	Bachelor of Manufacturing Engineering (BMFG)	9
57	BMFB 4113	ADVANCED MATERIALS	Bachelor of Manufacturing Engineering (BMFG)	9
58	BMFP 4113	INDUSTRIAL ERGONOMICS	Bachelor of Manufacturing Engineering (BMFG)	9
59	BMFS 4113	NON-METALLIC PROCESSES	Bachelor of Manufacturing Engineering (BMFG)	9

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60	BMFR 4513	ERGONOMICS IN DESIGN	Bachelor of Manufacturing Engineering (BMFG)	9
61	BMFA 4113	INDUSTRIAL ROBOTICS	Bachelor of Manufacturing Engineering (BMFG)	9
62	BMFP 4313	MODELLING AND SIMULATION	Bachelor of Manufacturing Engineering (BMFG)	9
63	BMFB 4713	GREEN MATERIALS AND BIOMATERIALS	Bachelor of Manufacturing Engineering (BMFG)	9,12
64	BMFS 4513	METAL PROCESSING TECHNOLOGIES	Bachelor of Manufacturing Engineering (BMFG)	9
65	BMFR 4613	ADDITIVE MANUFACTURING	Bachelor of Manufacturing Engineering (BMFG)	9
66	BMFA 4323	INDUSTRIAL DRIVES SYSTEM	Bachelor of Manufacturing Engineering (BMFG)	9
67	BMFB 4123	MATERIALS CHARACTERIZATION	Bachelor of Manufacturing Engineering (BMFG)	9
68	BMFP 4123	PRODUCT OPTIMIZATION	Bachelor of Manufacturing Engineering (BMFG)	9
69	BMFR 4223	PRODUCTION TOOLS DESIGN	Bachelor of Manufacturing Engineering (BMFG)	9
70	BMFS 4123	SURFACE ENGINEERING IN MANUFATURING	Bachelor of Manufacturing Engineering (BMFG)	9
71	BMFA 4123	INTELLIGENT SYSTEM	Bachelor of Manufacturing Engineering (BMFG)	9
72	BMFB 4723	NANOTECHNOLOGY	Bachelor of Manufacturing Engineering (BMFG)	9
73	BMFP 4323	LEAN SIX SIGMA	Bachelor of Manufacturing Engineering (BMFG)	9, 11
74	BMFR 4423	CONCURRENT ENGINEERING	Bachelor of Manufacturing Engineering (BMFG)	9

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75	BMFS 4523	ADVANCED CNC MACHINING	Bachelor of Manufacturing Engineering (BMFG)	9
76	BMFG 4123	CLOUD MANUFACTURING	Bachelor of Manufacturing Engineering (BMFG)	9
77	BMFI 1113	INTRODUCTION TO INDUSTRIAL ENGINEERING	Bachelor of Industrial Engineering (BMFI)	9
78	BMFI 2112	WORK SYSTEMS DESIGN	Bachelor of Industrial Engineering (BMFI)	9
79	BEKG 2453	ENGINEERING MATHEMATICS II	Bachelor of Industrial Engineering (BMFI)	9
80	BMFI 3**3	SYSTEM MODELLING: SIMULATION AND COMPUTING	Bachelor of Industrial Engineering (BMFI)	9
81	BMFI 3**3	PRODUCTION PLANNING AND INVENTORY CONTROL	Bachelor of Industrial Engineering (BMFI)	12
82	BMFI 3**3	OPERATION RESEARCH	Bachelor of Industrial Engineering (BMFI)	4
83	BMFI 3**3	HUMAN FACTORS ENGINEERING	Bachelor of Industrial Engineering (BMFI)	4
84	BMFI 3**3	FACILITY PLANNING AND DESIGN	Bachelor of Industrial Engineering (BMFI)	8
85	BMFP 4**3	CLOUD MANUFACTURING	Bachelor of Industrial Engineering (BMFI)	8
86	BMFI 4**3	SUPPLY CHAIN MANAGEMENT	Bachelor of Industrial Engineering (BMFI)	8
87	BMFI 4**3	INDUSTRIAL ACCOUNTING AND FINANCE	Bachelor of Industrial Engineering (BMFI)	8
88	BMFI 4**3	INDUSTRIAL MARKETING	Bachelor of Industrial Engineering (BMFI)	8
89	BMFI 4**3	ECONOMICS FOR DECISION MAKING	Bachelor of Industrial Engineering (BMFI)	8

No.	Course Code	Course Name	Programme	SDG
90	BMFR 4**3	STRATEGIC INNOVATION MANAGEMENT	Bachelor of Industrial Engineering (BMFI)	9
91	BMFI 4**3	INTRODUCTION TO DATA SCIENCE	Bachelor of Industrial Engineering (BMFI)	8
92	BMFI 4**3	INFORMATION TECHNOLOGY SECURITY	Bachelor of Industrial Engineering (BMFI)	8
93	BMFI 4**3	HUMAN COMPUTER INTERACTION	Bachelor of Industrial Engineering (BMFI)	4

TOTAL COURSE: 93