

SUSTAINABILITY COURSES/SUBJECTS OFFERED**FACULTY OF MECHANICAL TECHNOLOGY AND ENGINEERING (FTKM)**

No.	Course Code	Course Name	Programme	SDG
1	DMCU 1012	EXPERIMENTAL METHOD	Diploma in Mechanical Engineering (DMC)	9
2	DMCU 1233	CHEMISTRY	Diploma in Mechanical Engineering (DMC)	9
3	DACS 1263	FUNDAMENTAL PHYSICS	Diploma in Mechanical Engineering (DMC)	9
4	DEKG 2113	ELECTRICAL & ELECTRONIC PRINCIPLES	Diploma in Mechanical Engineering (DMC)	7
5	DMCU 1912	TECHNOLOGY AND ENGINEERING WORKSHOP PRACTICE I	Diploma in Mechanical Engineering (DMC)	9
6	DITG 1113	COMPUTER PROGRAMMING	Diploma in Mechanical Engineering (DMC)	9
7	DMCU 1323	MANUFACTURING PROCESS	Diploma in Mechanical Engineering (DMC)	9
8	DMCD 1543	ENGINEERING GRAPHICS	Diploma in Mechanical Engineering (DMC)	9
9	DMCU 2922	TECHNOLOGY AND ENGINEERING WORKSHOP PRACTICE II	Diploma in Mechanical Engineering (DMC)	9
10	DMCS 1313	STATICS	Diploma in Mechanical Engineering (DMC)	9
11	DLLW 2122	ENGLISH FOR EFFECTIVE COMMUNICATION	Diploma in Mechanical Engineering (DMC)	9
12	DMCU 2052	ENGINEERING MATHEMATICS	Diploma in Mechanical Engineering (DMC)	9
13	DMCB 2423	MATERIALS SCIENCE	Diploma in Mechanical Engineering (DMC)	9
14	DMCD 3523	ENGINEERING DESIGN	Diploma in Mechanical Engineering (DMC)	9

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15	DMCF 2232	HYDRAULIC AND PNEUMATICS	Diploma in Mechanical Engineering (DMC)	9
16	DMCS 2333	SOLID MECHANICS	Diploma in Mechanical Engineering (DMC)	9
17	DMCM 2713	DYNAMICS	Diploma in Mechanical Engineering (DMC)	9
18	DMCT 2133	THERMODYNAMICS	Diploma in Mechanical Engineering (DMC)	9
19	DMCU 2982	DIPLOMA PROJECT I	Diploma in Mechanical Engineering (DMC)	9
20	DMCF 2223	FLUID MECHANICS	Diploma in Mechanical Engineering (DMC)	9
21	DMCM 3723	MECHANICS OF MACHINE	Diploma in Mechanical Engineering (DMC)	9
22	DENG 2223	FUNDAMENTAL ELECTRIC AND MICROPROCESSOR	Diploma in Mechanical Engineering (DMC)	7
23	DMCD 2512	OCCUPATIONAL SAFETY AND HEALTH	Diploma in Mechanical Engineering (DMC)	9
24	DMCU 2992	DIPLOMA PROJECT II	Diploma in Mechanical Engineering (DMC)	9
25	DMCU 2968	INDUSTRIAL TRAINING	Diploma in Mechanical Engineering (DMC)	9
26	BMFG 1313	ENGINEERING MATHEMATICS I	Bachelor of Automotive Engineering with Honours (BMCK)	9
27	BMCG 1523	ENGINEERING GRAPHICS AND CAD	Bachelor of Automotive Engineering with Honours (BMCK)	9
28	BMFG 1213	ENGINEERING MATERIALS	Bachelor of Automotive Engineering with Honours (BMCK)	9

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29	BMCK 1113	ENGINEERING MECHANICS	Bachelor of Automotive Engineering with Honours (BMCK)	9
30	BMCG 1011	MECHANICAL ENGINEERING LABORATORY I	Bachelor of Automotive Engineering with Honours (BMCK)	9
31	BITG 1233	COMPUTER PROGRAMMING	Bachelor of Automotive Engineering with Honours (BMCK)	9
32	BEKG 1123	PRINCIPLES OF ELECTRIC AND ELECTRONICS	Bachelor of Automotive Engineering with Honours (BMCK)	7
33	BMCG 2312	MANUFACTURING PROCESS	Bachelor of Automotive Engineering with Honours (BMCK)	9
34	BMCK 2713	THERMODYNAMICS	Bachelor of Automotive Engineering with Honours (BMCK)	9
35	BMCG 2513	COMPUTER AIDED DESIGN AND MANUFACTURING	Bachelor of Automotive Engineering with Honours (BMCK)	9
36	BMCK 2913	AUTOMOTIVE TECHNOLOGY	Bachelor of Automotive Engineering with Honours (BMCK)	9
37	BMCK 2613	FLUID MECHANICS	Bachelor of Automotive Engineering with Honours (BMCK)	9
38	BMCG 2011	MECHANICAL ENGINEERING LABORATORY II	Bachelor of Automotive Engineering with Honours (BMCK)	9
39	BMCG 3333	MECHANICAL DESIGN	Bachelor of Automotive Engineering with Honours (BMCK)	9

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40	BMCG 2212	MICROPROCESSOR TECHNOLOGY	Bachelor of Automotive Engineering with Honours (BMCK)	9
41	BMCK 2113	SOLID MECHANICS	Bachelor of Automotive Engineering with Honours (BMCK)	9
42	BMCK 2923	VEHICLE ELCTRICAL & ELECTRONICS SYSTEMS	Bachelor of Automotive Engineering with Honours (BMCK)	7
43	BMCG 3011	MECHANICAL ENGINEERING LABOTATORY III	Bachelor of Automotive Engineering with Honours (BMCK)	9
44	BMCK 4913	VEHICLE AERODYNAMICS	Bachelor of Automotive Engineering with Honours (BMCK)	9
45	BMCK 3933	INTERNAL COMBUSTION ENGINE	Bachelor of Automotive Engineering with Honours (BMCK)	9
46	BMCG 3223	CONTROL ENGINEERING	Bachelor of Automotive Engineering with Honours (BMCK)	9
47	BMCG 4743	HEAT TRANSFER	Bachelor of Automotive Engineering with Honours (BMCK)	9
47	BMCK 3913	VEHICLE DYNAMICS	Bachelor of Automotive Engineering with Honours (BMCK)	9
48	BMCK 3011	AUTOMOTIVE LABORATORY I	Bachelor of Automotive Engineering with Honours (BMCK)	9
49	BMCK 3013	INTEGRATED DESIGN PROJECT I	Bachelor of Automotive Engineering with Honours (BMCK)	9

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50	BMCG 3233	MECHANICAL VIBRATION	Bachelor of Automotive Engineering with Honours (BMCK)	9
51	BMCK 3923	VEHICLE SYSTEM MODELING & SIMULATION	Bachelor of Automotive Engineering with Honours (BMCK)	9
52	BMCK 3021	AUTOMOTIVE LABORATORY II	Bachelor of Automotive Engineering with Honours (BMCK)	9
53	BMCU 3935	INDUSTRIAL TRAINING	Bachelor of Automotive Engineering with Honours (BMCK)	9
54	BMCU 4972	FINAL YEAR PROJECT I	Bachelor of Automotive Engineering with Honours (BMCK)	9
55	BMCU 4022	ENGINEER AND SOCIETY	Bachelor of Automotive Engineering with Honours (BMCK)	11
56	BMCK 3023	INTEGRATED DESIGN PROJECT II	Bachelor of Automotive Engineering with Honours (BMCK)	9
57	BMCK 4923	VEHICLE CONTROL SYSTEMS	Bachelor of Automotive Engineering with Honours (BMCK)	9
58	BMCK 4011	AUTOMOTIVE LABORATORY III	Bachelor of Automotive Engineering with Honours (BMCK)	9
60	BMCU 4011	ENGINEERING SEMINAR	Bachelor of Automotive Engineering with Honours (BMCK)	9
61	BMCU 4984	FINAL YEAR PROJECT II	Bachelor of Automotive Engineering with Honours (BMCK)	9

No.	Course Code	Course Name	Programme	SDG
66	BMFG 4623	ENGINEERING MANAGEMENT AND ECONOMY	Bachelor of Automotive Engineering with Honours (BMCK)	9
67	BMCK 4933	VEHICLE AUTONOMOUS SYSTEM	Bachelor of Automotive Engineering with Honours (BMCK)	9
68	BMCK 4973	NOISE, VIBRATION & HARSHNESS	Bachelor of Automotive Engineering with Honours (BMCK)	9
69	BMCK 4953	VEHICLE POWERTRAIN SYSTEMS	Bachelor of Automotive Engineering with Honours (BMCK)	9
70	BMCK 4993	VEHICLE STRUCTURE ANALYSIS	Bachelor of Automotive Engineering with Honours (BMCK)	9
71	BMCK 4943	VEHICLE ERGONOMICS	Bachelor of Automotive Engineering with Honours (BMCK)	9
72	BMCK 4983	ELECTRIC PROPULSION SYSTEM	Bachelor of Automotive Engineering with Honours (BMCK)	9
73	BMCK 4963	AUTOMOTIVE MANUFACTURING SYSTEMS	Bachelor of Automotive Engineering with Honours (BMCK)	9
74	BMCG 1113	STATICS	Bachelor of Mechanical Engineering with Honours (BMCG)	9
75	BMCG 1213	DYNAMICS	Bachelor of Mechanical Engineering with Honours (BMCG)	9
76	BMCG 2021	MECHANICAL ENGINEERING WORKSOP	Bachelor of Mechanical Engineering with Honours (BMCG)	9

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77	BEKG 2433	ELECTRICAL SYSTEMS	Bachelor of Mechanical Engineering with Honours (BMCG)	7,9
78	BMCG 3113	SOLID MECHANICS II	Bachelor of Mechanical Engineering with Honours (BMCG)	9
79	BMCG 3313	ENGINEERING DESIGN	Bachelor of Mechanical Engineering with Honours (BMCG)	9
80	BMCG 3713	THERMODYNAMICS II	Bachelor of Mechanical Engineering with Honours (BMCG)	9
81	BMCG 3613	FLUID MECHANICS II	Bachelor of Mechanical Engineering with Honours (BMCG)	9
82	BMCG 4113	FINITE ELEMENT ANALYSIS	Bachelor of Mechanical Engineering with Honours (BMCG)	9
83	BMCG 4812	SUSTAINABILITY AND ENVIRONMENT	Bachelor of Mechanical Engineering with Honours (BMCG)	11
84	BMCG 4743	HEAT TRANSFER	Bachelor of Mechanical Engineering with Honours (BMCG)	9
85	BMCU 4022	ENGINEER AND SOCIETY	Bachelor of Mechanical Engineering with Honours (BMCG)	11
86	BMCG 4713	RENEWABLE ENERGY SYSTEM	Bachelor of Mechanical Engineering with Honours (BMCG)	7
87	BMCG 4723	REFRIGERATION AND AIR CONDITIONING SYSTEM	Bachelor of Mechanical Engineering with Honours (BMCG)	9

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88	BMCG 4733	POWERPLANT SYSTEM	Bachelor of Mechanical Engineering with Honours (BMCG)	7
89	BMCG 4613	COMPUTATIONAL FLUID DYNAMICS	Bachelor of Mechanical Engineering with Honours (BMCG)	9
90	BMCG 4623	FLUID POWER AND TURBOBACHINERY	Bachelor of Mechanical Engineering with Honours (BMCG)	9
91	BMCG 4123	ADVANCED SOLID MECHANICS	Bachelor of Mechanical Engineering with Honours (BMCG)	9
92	BMCG 4133	FRACTURE MECHANICS	Bachelor of Mechanical Engineering with Honours (BMCG)	9
93	BMCG 4413	NON-DESTRUCTIVE TESTING	Bachelor of Mechanical Engineering with Honours (BMCG)	9
94	BMCG 4423	COMPOSITES AND ADVANCED MATERIALS	Bachelor of Mechanical Engineering with Honours (BMCG)	9
95	BMCG 4433	METALLURGY	Bachelor of Mechanical Engineering with Honours (BMCG)	9
96	BMCG 4313	MECHANISM DESIGN	Bachelor of Mechanical Engineering with Honours (BMCG)	9
97	BMCG 4323	PROTOTYPE DEVELOPMENT TECHNOLOGY	Bachelor of Mechanical Engineering with Honours (BMCG)	9
98	BMCG 4333	DESIGN QUALITY AND RELIABILITY	Bachelor of Mechanical Engineering with Honours (BMCG)	9

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99	BMCG 4343	DESIGN OPTIMIZATION	Bachelor of Mechanical Engineering with Honours (BMCG)	9
100	BMCG 4513	ADVANCED COMPUTER AIDED DESIGN	Bachelor of Mechanical Engineering with Honours (BMCG)	9
101	BMCG 4213	VIBRATION MONITORING OF ROTATING MACHINERY	Bachelor of Mechanical Engineering with Honours (BMCG)	9
102	BMCG 4813	CONDITION BASED MAINTENANCE	Bachelor of Mechanical Engineering with Honours (BMCG)	9
103	BMCG 4823	RELIABILITY, MAINTAINABILITY AND RISKS	Bachelor of Mechanical Engineering with Honours (BMCG)	9
104	BMCG 4833	WEAR DEBRIS AND OIL ANALYSIS	Bachelor of Mechanical Engineering with Honours (BMCG)	9
105	BMCG 4843	STRUCTURAL HEALTH MONITORING	Bachelor of Mechanical Engineering with Honours (BMCG)	9
106	BMMV 4103	PRINCIPLE OF ENVIRONMENTAL TECHNOLOGY	Bachelor of Mechanical Engineering with Honours (BMCG)	9
107	BMMV 4113	WATER AND WASTEWATER TECHNOLOGY	Bachelor of Mechanical Engineering with Honours (BMCG)	6
108	BMMV 4123	AIR QUALITY AND POLLUTION CONTROL TECHNOLOGY	Bachelor of Mechanical Engineering with Honours (BMCG)	11
109	BMMV 4133	SOLID WASTE MANAGEMENT TECHNOLOGY	Bachelor of Mechanical Engineering with Honours (BMCG)	12

No.	Course Code	Course Name	Programme	SDG
110	BMMV 4143	ENVIRONMENTAL IMPACT ASSESSMENT	Bachelor of Mechanical Engineering with Honours (BMCG)	11
111	BMMV 4153	INDUSTRIAL AND HAZARDOUS WASTE MANAGEMENT	Bachelor of Mechanical Engineering with Honours (BMCG)	12
112	BMMV 4203	SMALL CRAFT TECHNOLOGY	Bachelor of Mechanical Engineering with Honours (BMCG)	4
113	BMMV 4213	NAVAL ARCHITECTURE	Bachelor of Mechanical Engineering with Honours (BMCG)	4
114	BMMV 4223	MARINE PRODUCTION AND MANAGEMENT	Bachelor of Mechanical Engineering with Honours (BMCG)	9
115	BMMV 4233	MARINE TECHNOLOGY SYSTEM	Bachelor of Mechanical Engineering with Honours (BMCG)	9
116	BMMV 4243	MARINE OFFSHORE STRUCTURES	Bachelor of Mechanical Engineering with Honours (BMCG)	9
117	BMMV 4253	MARINE INSPECTION AND MAINTENANCE	Bachelor of Mechanical Engineering with Honours (BMCG)	9
118	BMMV 4303	BUILDING SERVICES ENGINEERING	Bachelor of Mechanical Engineering with Honours (BMCG)	9
119	BMMV 4313	BUILDING UTILITIES	Bachelor of Mechanical Engineering with Honours (BMCG)	9
120	BMMV 4323	SMART BUILDING MANAGEMENT	Bachelor of Mechanical Engineering with Honours (BMCG)	11

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121	BMMV 4333	GREEN BUILDING AND SUSTAINABILITY	Bachelor of Mechanical Engineering with Honours (BMCG)	11
122	BMMV 4343	BUILDING HSE	Bachelor of Mechanical Engineering with Honours (BMCG)	99
123	BMMV 4353	BUILDING MAINTENANCE TECHNIQUE	Bachelor of Mechanical Engineering with Honours (BMCG)	9
120	BEEU 3764	BACHELOR'S DEGREE PROJECT I	Bachelor of Electrical Engineering Technology (Industrial Power) (BEEI)	9
121	BEEI 4823	HIGH VOLTAGE TECHNOLOGY	Bachelor of Electrical Engineering Technology (Industrial Power) (BEEI)	9
122	BEEI 3403	POWER DISTRIBUTION SYSTEM	Bachelor of Electrical Engineering Technology (Industrial Power) (BEEI)	9
123	BEEI 4833	POWER SYSTEMS PROTECTION	Bachelor of Electrical Engineering Technology (Industrial Power) (BEEI)	9

TOTAL COURSE: 123