



**BAYERO UNIVERSITY KANO**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**FACULTY OF ENGINEERING**  
**LIST OF COURSES**

**Level 100 Courses**

<b>S/N</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Credit Unit</b>	<b>Pre-requisite</b>
<b>FIRST SEMESTER</b>				
1	CHM1231	Inorganic Chemistry	2	
2	CHM1241	Organic Chemistry	2	
3	CSC1201	Introduction to Computer Science	2	
4	MTH1301	Elementary Mathematics I	3	
5	STA1311	Probability I	3	
6	PHY1170	Physics Practical I	1	
7	PHY1210	Mechanics	2	
8	PHY1220	Electricity and Magnetism	2	
9	GSP1201	Use of English	2	
<b>Total Credits</b>			<b>19</b>	
<b>SECOND SEMESTER</b>				
1	CHM1251	Physical Chemistry	2	
2	CHM1261	Practical Chemistry	2	
3	MTH1302	Elementary Mathematics II	3	
4	MTH1303	Elementary Mathematics III	3	
5	PHY1180	Physics Practical II	1	
6	PHY1230	Behaviour of Matter	2	
7	GSP1202	Use of Library, Study Skills and ICT	2	
<b>Total Credits</b>			<b>15</b>	

## Level 200 Courses

S/N	Course Code	Course Title	Credit Unit	Pre-requisite
<b>FIRST SEMESTER</b>				
1	EGR2204	Workshop Practice	2	
2	EGR2205	Thermodynamics I	2	
3	EGR2206	Material Science I	2	
4	EGR2207	Principles of Electrical Engineering I	2	PHY1220
5	EGR2301	Engineering Mathematics I	3	MTH1301
6	EGR2304	Laboratory A	3	
7	EGR2306	Applied Mechanics	3	
8	*GSP2201	Use of English	2	
9	GSP2204	Foundation of Nigerian Culture, Government and Economy	2	
10	GSP2206	Peace Studies and Conflict Resolution	2	
<b>Total Credits</b>			<b>21/*23</b>	
1	EGR2101	Engineer in Society I	1	
2	EGR2102	SWEP	1	
3	EGR2103	Experimental Methods and Analysis	1	
4	EGR2201	Fluid Mechanics I	2	
5	EGR2202	Solid Mechanics I	2	
6	EGR2203	Engineering Drawing I	2	
7	EGR2208	Principles of Electrical Engineering II	2	
8	EGR2302	Engineering Mathematics II	3	
9	EGR2305	Laboratory B	3	
10	EGR2313	Computer Programming	3	CSC1201
11	*GSP2202	Use of Library, Study Skills and ICT	2	
12	GSP2205	Logic and Philosophy	2	
<b>Total Credits</b>			<b>22/*24</b>	

\*For Direct Entry Students only

### Level 300 Courses

S/N	Course Code	Course Title	Credit Unit	Pre-requisite
<b>FIRST SEMESTER</b>				
1	CIV3303	Fluid Mechanics II	3	EGR2201
2	CIV3304	Soil Mechanics	3	
3	CIV3305	Laboratory Practical A	3	
4	CIV3308	Strength of Materials	3	EGR2202
5	CIV3309	Structural Analysis I	3	
6	CIV3401	Engineering Geology	4	
7	CIV3403	Engineering Survey I	4	
8	EGR3101	Engineer in Society II	1	
9	EGR3301	Engineering Mathematic III	3	EGR2301
<b>Total Credits</b>			<b>27</b>	
<b>SECOND SEMESTER</b>				
1	CIV3301	Civil Engineering Practice	3	
2	CIV3302	Civil Engineering Materials	3	EGR2206
	CIV3306	Laboratory Practical B	3	
	CIV3307	Design of Structural Element I	3	
	CIV3402	Civil Engineering Drawing	4	EGR2203
14	EGR3102	Technical Writing and Presentation	1	
15	EGR3203	SIWES I	2	
17	EGR3302	Computation Techniques	3	EGR2302
18	EGR3311	Computer Application	3	EGR2313
19	EEP3201	Entrepreneurship and Innovation	2	
<b>Total Credits</b>			<b>27</b>	

### Level 400 Courses

S/N	Course Code	Course Title	Credit Unit	Pre-requisite
<b>FIRST SEMESTER</b>				
1	CIV4201	Highway Engineering I	2	CIV3403
2	CIV4202	Structural Analysis II	2	CIV3309 & EGR3301
3	CIV4203	Soil Mechanics II	2	CIV3304
4	CIV4204	Design of Structural Element II	2	CIV3307
5	CIV4301	Laboratory Practical	3	
6	CIV4302	Hydraulics/Hydrology	3	CIV3303
7	CIV4303	Engineering Surveying II	3	CIV3403
8	CIV4304	Civil Engineering Practice	3	
9	EGR4201	Engineering Statistics	2	
10	EPP4201	Venture Creation and Growth	2	
<b>Total Credits</b>			<b>24</b>	
<b>SECOND SEMESTER</b>				
1	EGR4401	SIWES II	4	
<b>Total Credits</b>			<b>4</b>	

## Level 500 Courses

S/N	Course Code	Course Title	Credit Unit	Pre-requisite
<b>FIRST SEMESTER</b>				
1	CIV5202	Public Health Engineering	2	
2	CIV5310	Laboratory Practical A	3	
3	CIV5401	Construction Management and Economics II	4	CIV4304
4	CIV5404	Transportation and Highway Engineering	4	CIV4201
5	CIV5406	Structural Analysis III	4	CIV4202 & EGR3302
6	Plus 3 credits option course		3	
<b>Total Credits</b>			<b>20</b>	
<b>SECOND SEMESTER</b>				
1	CIV5201	Construction Management and Economics I	2	
2	CIV5311	Laboratory Practical B	3	
3	CIV5402	Geotechnical Engineering	4	CIV4203
4	CIV5403	Water Resources Engineering	4	EGR4201
5	CIV5405	Design of Structural Elements III	4	CIV4204
6	CIV5601	Final Year Project	6	
7	Plus 3 credits option course		3	
<b>Total Credits</b>			<b>26</b>	

**Level 500 Option Courses**

<b>S/N</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Credit Units</b>
<b>1. Water Resources and Environmental Engineering</b>			
1	CIV5301	Advanced Public Health Engineering	3
2	CIV5302	Drainage and Irrigation Engineering	3
<b>TOTAL CREDITS</b>			<b>6</b>
<b>2. Geotechnical Engineering</b>			
3	CIV5303	Rock Mechanics	3
4	CIV5304	Advanced Foundation & Underground Construction	3
<b>TOTAL CREDITS</b>			<b>6</b>
<b>3. Structural Engineering</b>			
5	CIV5305	Prestressed Concrete Design	3
6	CIV5306	Analysis and Design of Timber Structures	3
<b>TOTAL CREDITS</b>			<b>6</b>
<b>4. Building/Construction Technology</b>			
	CIV5304	Advanced Foundation & Underground Construction	3
	CIV5307	Advanced Construction Technology	3
<b>TOTAL CREDITS</b>			<b>6</b>
<b>5. Transportation Engineering</b>			
	CIV5308	Rural and Urban Transportation Engineering	3
	CIV5309	Advanced Traffic Engineering	3
<b>TOTAL CREDITS</b>			<b>6</b>