

DEPARTMENT OF CHEMISTRY

100 LEVEL 1 <sup>ST</sup> SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
CHE 101	C	General Chemistry I	2	1	3	4
PHY 103	R	General Physics III	1	1	0	2
PHY 107	R	General Physics Laboratory I	0	0	3	1
MTS 101	R	Introductory Mathematics I	2	1	0	3
BIO 101	R	General Biology I	2	1	3	4
<b>GNS 101</b>	<b>R</b>	<b>Use of English I</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>
GNS 103	R	Information Retrieval	1	0	0	1
<b>MEE 101</b>	<b>R</b>	<b>Engineering Drawing I</b>	<b>1</b>	<b>0</b>	<b>6</b>	<b>3</b>
	Total					20

100 LEVEL 2 <sup>ND</sup> SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
CHE 102	C	General Chemistry II	2	1	3	4
PHY 102	R	General Physics II	2	1	0	3
PHY 108	R	General Physics Laboratory II	0	0	3	1
MTS 102	R	Introductory Mathematics II	2	1	0	3
BIO 102	R	General Biology II	2	1	3	4
GNS 102	R	Use of English II	1	1	0	2
<b>GNS 106</b>	<b>R</b>	<b>Logic and Philosophy</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>
<b>MEE 102</b>	<b>R</b>	<b>Workshop Practice</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>2</b>
	Total					21

200 LEVEL 1 <sup>ST</sup> SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
CHE 201	C	Inorganic Chemistry I	1	0	3	2
CHE 203	C	Organic Chemistry I	1	0	3	2
CHE 205	C	Physical Chem. I	1	0	3	2
PHY 201	R	Elementary Modern Physics	2	1	0	3
<b>MTS 201</b>	<b>R</b>	<b>Mathematical Methods I</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>3</b>
<b>MTS 209</b>	<b>R</b>	<b>Differential Equations I</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>3</b>
<b>GNS 203</b>	<b>R</b>	<b>Nigerian History and Culture</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>
CSP 201	R	General Agriculture (Theory)	1	0	0	1
	Total					18

<i>Audited Courses for D.E students</i>						
<b>GNS 101</b>	<b>R</b>	<b>Use of English I</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>
<b>GNS 103</b>	<b>R</b>	<b>Information Retrieval</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
<b>MEE 101</b>	<b>R</b>	<b>Engineering Drawing I</b>	<b>1</b>	<b>0</b>	<b>6</b>	<b>3</b>

200 LEVEL 2 <sup>ND</sup> SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
CHE 202	C	Analytical Chemistry I	1	0	3	2
CHE 204	C	Structure and Bonding	2	0	0	2
PHY 202	R	<b>Electric Circuits &amp; Electronics</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>3</b>
MTS 202	R	<b>Numerical Analysis I</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>3</b>
MTS 122	R	Statistics For Physical Sciences	3	1	0	4
CSC 102	R	Introduction to Computing	2	0	3	3
CSP 210	R	General Agric (Practical)	0	0	6	2
PHY 208	R	Experimental Physics II	0	0	3	1
		Total				20

University Required Courses for Direct Entry Students						
MEE 102	R	Workshop practice	0	-	6	2
GNS 102	R	Use of English II	1	1	-	2
GNS 106	R	Logic and Philosophy	1	1	-	2

300 LEVEL 1 <sup>ST</sup> SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
CHE 301	C	Inorganic Chem. II	3	0	3	4
CHE 303	C	Organic Chemistry II	3	0	3	4
CHE 305	C	Physical Chemistry II	1	0	3	2
<b>CHE 307</b>	<b>C</b>	<b>Organometallic Chemistry</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
CHE 309	C	Industrial Raw Materials	1	0	0	1
<b>CHE 311</b>	<b>C</b>	<b>Environmental Chemistry</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>
<b>CHE 313</b>	<b>C</b>	<b>Introductory Industrial Chemistry</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>
<b>CHE 315</b>	<b>C</b>	<b>Instrumental Methods</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>2</b>
<b>CHE 317</b>	<b>C</b>	<b>Experimental techniques in Chemistry</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>2</b>
EMT 301	R	Introduction to Entrepreneurship	2	0	0	2
		Total				22

300 LEVEL 2 <sup>ND</sup> SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
CHE 302	C	Atomic & Molecular Structure	2	0	0	2
<b>CHE 304</b>	<b>C</b>	<b>Petrochemistry I</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>
CHE 306	C	Natural Product Chemistry I	1	0	0	1
CHE 308	C	Polymer Chemistry I	2	0	0	2
CHE 310	C	Colour Chemistry and Textile Tech. I	1	0	3	2
CHE 312	C	Applied Spectroscopy	1	0	3	2
CHE 314	C	Industrial Chemistry Process I	1	0	3	2
CHE 316	C	Industrial Chemistry Tech. I	2	0	0	2
CHE 318	C	Quality Control & Industrial Safety	1	0	0	1
GNS 202	R	Principles of Economics	2	1	0	3
<b>EMT 302</b>	<b>R</b>	<b>Practical Skills in Entrepreneurship</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>3</b>
		Total				22

400 LEVEL 1 <sup>ST</sup> SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
CHE 401	C	Theory of Molecular Spectroscopy	2	0	0	2
CHE 403	C	Reaction Kinetics	1	0	3	2
<b>CHE 405</b>	<b>C</b>	<b>Radio Chemistry &amp; Nuclear Chemistry I</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>
CHE 407	C	Analytical Chemistry II	2	0	3	3
CHE 409	C	Heterocyclic Chem.	2	0	0	2
CHE 411	C	Coordination Chemistry	1	0	0	1
CHE 413	C	Non Aqueous Solvent	1	0	0	1
<b>CHE 415</b>	<b>C</b>	<b>Chemistry of Lanthanides &amp; Actinides</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
CHE 417	C	Natural Products Chemistry II	1	0	3	2
CHE 419	C	Food Chemistry	1	0	3	2
		Total				18

400 LEVEL 2 <sup>ND</sup> SEMESTER LONG VACATION (SIWES)						
COURSE CODE		COURSE TITLE	L	T	P	Units
CHE 402	C	Industrial Training Assessed by Industrial based Supervisors	0	0	12	4
CHE 404	C	Industrial Training Assessed by FUTA Supervisors	0	0	6	4
CHE 406	C	Student's Report and Seminar presentation	0	2	12	4
		Total				12

500 LEVEL 1 <sup>ST</sup> SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
CHE 503	C	Industrial Chemical Process II	2	0	0	2
CHE 505	C	Dye Chem. and Textile Tech. I	1	0	3	2
CHE 507	C	Polymer Chemistry II	1	0	3	2
CHE 599	C	Final Year Student's Project	0	0	18	6
		Electives				8
		Total				20
<b>Electives</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>Units</b>
CHE 509	E	Water and Waste Water Treatment	1	-	3	2
CHE 511	E	Applied Surface & Colloid Chemistry	1	-	3	2
<b>CHE 513</b>	<b>E</b>	<b>Petrochemistry II</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>2</b>
CHE 515	E	Wood, Pulp and Paper Chemistry I	1	-	3	2
CHE 517	E	Quantum Chemistry	2	-	-	2
GNS 501	E	Industrial Management	2	-	-	2

<b>500 LEVEL 2<sup>ND</sup> SEMESTER</b>						
<b>COURSE CODE</b>		<b>COURSE TITLE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Units</b>
CHE 502	C	Seminar	0	2	0	2
CHE 504	C	Ind. Chem Tech. II	2	0	0	2
CHE 506	C	Food Analysis	1	0	3	2
<b>CHE 514</b>	<b>C</b>	<b>Dye Chemistry &amp; Textile Tech. II</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>2</b>
<b>CHE 516</b>	<b>C</b>	<b>Polymer Tech.</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>2</b>
		<b>Electives</b>				<b>6</b>
		Total				16
<b>ELECTIVES</b>						
CHE 508	E	Electrochemistry	1	-	3	2
CHE 510	E	Analysis of raw Materials and Drugs	1	-	3	2
CHE 512	E	Special Topics in Industrial Chemistry	2	-	-	2
<b>CHE 518</b>	<b>E</b>	<b>Wood, Pulp and Paper Chemistry II</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>2</b>
<b>PMT 504</b>	<b>E</b>	<b>Entrepreneurship</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>3</b>