



**LAGOS STATE POLYTECHNIC**  
**SCHOOL OF ENGINEERING TECHNOLOGY**  
**DEPARTMENT OF CHEMICAL ENGINEERING TECHNOLOGY**  
**NEW CURRICULUM FOR HND I (CHEMICAL ENGINEERING) (FIRST SEMESTER)**

<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>THEORY HOUR</b>	<b>PRACTICAL HOUR</b>	<b>CONTACT HOUR</b>	<b>COURSE UNITS</b>	<b>PREREQUISITE</b>
<b>MTH 311</b>	Advanced Algebra	1	0	3	<b>3</b>	
<b>MTH 312</b>	Advanced Calculus	1	0	3	<b>3</b>	
<b>CHE 301</b>	Engineer-in-society	0	0	2	<b>2</b>	
<b>CHE 303</b>	Unit Operations III	0	0	2	<b>2</b>	
<b>CHE 305</b>	Chemical Engineering Laboratory III	0	6	6	<b>2</b>	
<b>CHE 307</b>	Heat Transfer II	1	0	3	<b>3</b>	
<b>CHE 309</b>	Chemical Engineering Thermodynamics II	1	0	3	<b>3</b>	
<b>CHE 311</b>	Mass Transfer II	1	0	3	<b>3</b>	
<b>MTH 310</b>	Statistical Methods in Engineering	1	0	3	<b>3</b>	
<b>GNS 301</b>	Use of English III	0	0	2	<b>2</b>	
	<b>TOTAL</b>	<b>2</b>	<b>6</b>	<b>30</b>	<b>26</b>	



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CODE	TITLE OF COURSE	T	P	CH	CU	Pre-requisite
MTH 316	Numerical Methods	1	0	3	3	
COM 317	Computer Programming	1	1	4	3	
GLT 303	Biological & Chemical Instrumentation	0	3	4	2	
CHE 302	Unit Operations IV	0	0	2	2	CHE 303
CHE 304	Fluid Mechanics II	1	0	3	3	
CHE 306	Chemical Reaction Engineering II	1	0	3	3	
CHE 308	Chemical Engineering Laboratory IV	0	6	6	2	
CHE 310	Polymer Science & Technology	0	0	2	2	
CHE 312	Strength of Materials	1	0	3	3	
<b>LOCAL CONTENT</b>						
GNS 302	Communication in English III	0	0	2	2	
CHE 314	Energy Audit and Management	0	0	2	2	
CHE 316	Industrial Chemistry	0	0	2	2	
CCE 300	Compulsory Computer Education III	0	2	2	0	
	<b>TOTAL</b>	<b>5</b>	<b>12</b>	<b>38</b>	<b>29</b>	

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**NEW CURRICULUM FOR HND II (CHEMICAL ENGINEERING) (FIRST SEMESTER)**

<b>CODE</b>	<b>TITLE OF COURSE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>CH</b>	<b>CU</b>	<b>Pre-requisite</b>
CHE 401	Process Design	2	1	0	3	3	
CHE403	Chemical Plant Economics	2	1	0	3	3	
CHE 405	Unit Operations V	2	0	0	2	2	CHE 302
CHE 407	Food Science & Technology	2	0	0	2	2	
CHE 409	Chemical Engineering Laboratory V	0	0	6	6	2	
CHE 411	Chemical Engineering Analysis	2	1	0	3	3	
CHE 413	Project Seminar	1	0	3	4	2	
CHE 415	Engineering Management II	2	0	0	2	2	
	<b>Electives I</b>						
CHE 417	Pulp and Paper Technology	2	0	0	2	2	
CHE 419	Process Metallurgy	2	0	0	2	2	
<b>LOCAL CONTENT</b>							
EED 413	Entrepreneurship Development	2	0	2	4	3	
	<b>TOTAL</b>	<b>19</b>	<b>3</b>	<b>11</b>	<b>33</b>	<b>26</b>	

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<b>CODE</b>	<b>TITLE OF COURSE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>CH</b>	<b>CU</b>	<b>Pre-requisite</b>
CHE 402	Unit Operations VI	2	1	0	3	3	CHE 405
CHE 404	Equipment Design	2	1	0	3	3	
CHE 406	Chemical Process Dynamics & Control	2	0	0	2	2	
CHE 408	Health, Safety & Environment II	2	0	0	2	2	
CHE 410	Chemical Engineering Entrepreneurship	2	0	0	2	2	
CHE 412	Plant Services and Maintenance	2	0	0	2	2	
CHE 414	Petroleum Refining and Petrol Chemical Tech.	2	0	0	2	2	
CHE 416	Project	1	1	6	8	4	
	<b>Elective II (Any two)</b>						
CHE 418	Biochemical Engineering	2	0	0	2	2	
CHE 420	Gas Processing Technology	2	0	0	2	2	
CHE 422	Reservoir Engineering	2	0	0	2	2	
<b>LOCAL CONTENT</b>							
CCE 400	Compulsory Computer Education IV	0	0	2	2	0	
	<b>TOTAL</b>	<b>21</b>	<b>3</b>	<b>8</b>	<b>32</b>	<b>24</b>	

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