

**B. Tech. (Chemical Engineering) Revised Syllabus w.e.f. 2009-10**

<b>Course Code</b>	<b>Title of Course</b>	<b>Teaching Hours</b>	<b>Credits</b>	<b>Practical Hours</b>	<b>Credits</b>	<b>Total Credits</b>
<b>First Sem.</b>						
BSC-104	Inorganic Chemistry	<b>04</b>	<b>04</b>	<b>3</b>	<b>1.5</b>	<b>5.5</b>
BSC-105	Physics	<b>04</b>	<b>04</b>	<b>3</b>	<b>1.5</b>	<b>5.5</b>
ESC-103	Electrical Engineering and Electronics	<b>04</b>	<b>04</b>	<b>2</b>	<b>1</b>	<b>5</b>
ESL-104	Generation and Transmission of Mechanical Power	<b>04</b>	<b>04</b>	<b>-</b>	<b>-</b>	<b>4</b>
ESC-105	Engineering Graphics	<b>02</b>	<b>02</b>	<b>3</b>	<b>1.5</b>	<b>3.5</b>
HMC-101	Communication & Soft Skill	<b>03</b>	<b>03</b>	<b>1</b>	<b>0.5</b>	<b>3.5</b>
Total		<b>22</b>	<b>22</b>	<b>12</b>	<b>6</b>	<b>27</b>
<b>Second Sem.</b>						
BSL-101	Mathematics-I	<b>04</b>	<b>04</b>	<b>-</b>	<b>-</b>	<b>04</b>
BSC-102	Organic Chemistry-I	<b>04</b>	<b>04</b>	<b>3</b>	<b>1.5</b>	<b>5.5</b>
BSC-103	Physical Chemistry	<b>04</b>	<b>04</b>	<b>03</b>	<b>1.5</b>	<b>5.5</b>
ESC-101	Workshop Technology	<b>02</b>	<b>02</b>	<b>4</b>	<b>2</b>	<b>04</b>
ESC-102	Computer Science and Application	<b>02</b>	<b>02</b>	<b>02</b>	<b>1</b>	<b>3</b>

ESL-106	Material Technology	<b>04</b>	<b>04</b>	-	-	<b>04</b>
Total		<b>20</b>	<b>20</b>	<b>12</b>	<b>06</b>	<b>26</b>
<b>Third Sem.</b>						
BSC-202	Organic Chemistry-II	<b>04</b>	<b>04</b>	<b>3</b>	<b>1.5</b>	<b>5.5</b>
ESC-201	Applied & Structural Mechanics	<b>04</b>	<b>04</b>	<b>2</b>	<b>1</b>	<b>05</b>
CHL-201	Introduction to Chemical Engineering	<b>04</b>	<b>04</b>	-	-	<b>04</b>
CHC-203	Momentum Transfer	<b>04</b>	<b>04</b>	<b>3</b>	<b>1.5</b>	<b>5.5</b>
CHL-204	Process Calculation	<b>04</b>	<b>04</b>	-	-	<b>04</b>
Total		<b>20</b>	<b>20</b>	<b>08</b>	<b>04</b>	<b>24</b>
<b>Forth Sem.</b>						
BSL-201	Mathematics-II	<b>04</b>	<b>04</b>	-	-	<b>04</b>
CHC-202	Mechanical Operations	<b>04</b>	<b>04</b>	<b>03</b>	<b>1.5</b>	<b>5.5</b>
CHL-205	Chemical Engineering Thermodynamics	<b>04</b>	<b>04</b>	-	-	<b>04</b>
CHC-206	Heat Transfer	<b>04</b>	<b>04</b>	<b>03</b>	<b>1.5</b>	<b>5.5</b>
CHL- 207	Chemical Process Technology	<b>04</b>	<b>04</b>	-	-	<b>04</b>
HML-201	Industrial management and Economics	<b>04</b>	<b>04</b>	-	-	<b>04</b>

Total		<b>24</b>	<b>24</b>	<b>06</b>	<b>03</b>	<b>27</b>
<b>Fifth Sem.</b>						
ESC-301	Machine Design & Drawing	<b>02</b>	<b>02</b>	<b>03</b>	<b>1.5</b>	<b>3.5</b>
CHC-301	Mass Transfer-I	<b>04</b>	<b>04</b>	<b>03</b>	<b>1.5</b>	<b>5.5</b>
CHC-302	Instrumentation & Instrumental Analysis	<b>04</b>	<b>04</b>	<b>03</b>	<b>1.5</b>	<b>5.5</b>
CHC-303	Chemical Reaction Engg.-I	<b>04</b>	<b>04</b>	<b>02</b>	<b>1</b>	<b>04</b>
HML-301	Managerial Behavior : Psychosocial Dimensions	<b>03</b>	<b>03</b>	<b>-</b>	<b>-</b>	<b>03</b>
ELECTIVE	Elective-I	<b>03</b>	<b>03</b>	<b>-</b>	<b>-</b>	<b>03</b>
Total		<b>20</b>	<b>20</b>	<b>11</b>	<b>5.5</b>	<b>25.5</b>
<b>Sixth Sem</b>						
CHC-304	Mathematical Methods in Chemical Engg.	<b>4</b>	<b>4</b>	<b>03</b>	<b>1.5</b>	<b>5.5</b>
CHC-305	Chemical Reaction Engg.-II	<b>04</b>	<b>04</b>	<b>03</b>	<b>1.5</b>	<b>5.5</b>
CHC-306	Mass Transfer-II	<b>04</b>	<b>04</b>	<b>03</b>	<b>1.5</b>	<b>5.5</b>
CHC-307	Process Equipment Design & Drawing	<b>04</b>	<b>04</b>	<b>03</b>	<b>1.5</b>	<b>5.5</b>

ELECTIVE	Elective-II	<b>03</b>	<b>03</b>	-	-	<b>3</b>
ELECTIVE	Elective-III	<b>03</b>	<b>03</b>	-	-	<b>3</b>
Total		<b>22</b>	<b>22</b>	<b>12</b>	<b>06</b>	<b>28</b>
<b>Seventh Sem</b>						
CHC-401	Modelling, Simulation and CAD	<b>4</b>	<b>4</b>	<b>3</b>	<b>1.5</b>	<b>5.5</b>
CHL-402	Transport Phenomena	<b>4</b>	<b>4</b>	-	-	<b>4</b>
CHC-403	Process Dynamics & Control	<b>4</b>	<b>4</b>	<b>3</b>	<b>1.5</b>	<b>5.5</b>
CHC-404	Plant Design, Economics & Costing	<b>4</b>	<b>4</b>	<b>3</b>	<b>1.5</b>	<b>5.5</b>
ELECTIVE	Elective-IV	<b>4</b>	<b>4</b>	-	-	<b>4</b>
Total		<b>20</b>	<b>20</b>	<b>09</b>	<b>4.5</b>	<b>24.5</b>
<b>Eighth Sem.</b>						
CHP-407	Industrial Training/Project	-	-	<b>30</b>	<b>15</b>	<b>15</b>
CHP-408	Technical Seminar & Colloquium	-	-	<b>6</b>	<b>3</b>	<b>3</b>
Total	-	-	<b>36</b>	<b>18</b>	<b>18</b>	<b>18</b>