

Dr. Babasaheb Ambedkar Technological University Lonere, Raigad
Comparison of Syllabus of B. Tech. Petrochemical Engg. and Chemical Engg.

PETROCHEMICAL ENGINEERING	CHEMICAL ENGINEERING
<p>SEMESTER I</p> <ul style="list-style-type: none"> • Engineering Mathematics-I • Engineering Physics • Engineering Physics Lab • Engineering Graphics and Design • Engineering Graphics and Design Lab • Programming for Problem Solving • Programming for Problem Solving Lab • Communication Skills • Communication Skills Lab • Design Thinking <p>A. NSS-I B. NCC C. Introduction to Yoga</p>	<p>SEMESTER I</p> <ul style="list-style-type: none"> • Engineering Mathematics-I • Engineering Physics • Engineering Physics Lab • Engineering Graphics and Design • Engineering Graphics and Design Lab • Programming for Problem Solving • Programming for Problem Solving Lab • Communication Skills • Communication Skills Lab • Design Thinking <p>A. NSS-I B. NCC C. Introduction to Yoga</p>
<p>SEMESTER II</p> <ul style="list-style-type: none"> • Engineering Mathematics-II • Engineering Chemistry • Engineering Chemistry Lab • Basic Electrical & Electronics Engineering • Basic Electrical & Electronics Engineering Lab • Engineering Mechanics • Energy and Environment Engineering • Energy and Environment Engineering Lab • Introduction to Petrochemical Engineering • AUTOCAD Laboratory • IKS Bucket <p>A. NSS-II B. Health & Wellness C. Study from Still Life D. Hindustani Music</p>	<p>SEMESTER II</p> <ul style="list-style-type: none"> • Engineering Mathematics-II • Engineering Chemistry • Engineering Chemistry Lab • Basic Electrical & Electronics Engineering • Basic Electrical & Electronics Engineering Lab • Engineering Mechanics • Engineering Mechanics Lab • Environmental Science • Environmental Science Lab • Introduction to Chemical Engineering • Workshop-Manufacturing practices • IKS Bucket <p>A. NSS-II B. Health & Wellness C. Study from Still Life D. Hindustani Music</p>
<p>SEMESTER III</p> <ul style="list-style-type: none"> • Engineering Mathematics III • Unit Operations - I [Fluid Flow Operations and Mechanical Operations] • Stoichiometry • Petrochemical Engg.-I • Petrochemical Engg. Lab • Unit Operations Lab - I [Fluid Flow Operations and Mechanical Operations] 	<p>SEMESTER III</p> <ul style="list-style-type: none"> • Engineering Mathematics III • Chemical Process Calculations • Fluid Flow Operations • Mechanical Operations • Professional Elective – I • Fluid Flow Operations and Mechanical Operations Lab
<p>SEMESTER IV</p> <ul style="list-style-type: none"> • Chemical Engineering Thermodynamics • Unit Operations - II [Heat Transfer Operations] • Basic Human Rights • Petrochemical Engineering II • Professional Elective I 	<p>SEMESTER IV</p> <ul style="list-style-type: none"> • Chemical Engineering Thermodynamics • Heat Transfer Operations • Basic Human Rights • Open Elective I • Professional Elective II

<ul style="list-style-type: none"> • Unit Operations Lab - II [Heat Transfer Operations] • Universal Human Values II 	<ul style="list-style-type: none"> • Heat Transfer Operations Lab
<p>SEMESTER V</p> <ul style="list-style-type: none"> • Mass Transfer – I • Reaction Engineering –I • Petrochemical Technology • Open Elective – I • Professional Elective – II • Reaction Engineering Lab 	<p>SEMESTER V</p> <ul style="list-style-type: none"> • Mass Transfer Operations – I • Chemical Reaction Engineering – I • Chemical Technology • Open Elective – II • Professional Elective – III • Chemical Reaction Engineering Lab
<p>SEMESTER VI</p> <ul style="list-style-type: none"> • Reaction Engineering – II • Mass Transfer – II • Process Dynamics and Control • Process Economics and Industrial Management • Professional Elective – III • Mass Transfer Lab 	<p>SEMESTER VI</p> <ul style="list-style-type: none"> • Chemical Reaction Engineering – II • Mass Transfer Operations – II • Process Instrumentation and Control • Engineering Economics and Project management • Open Elective – III • Mass Transfer Operations Lab
<p>SEMESTER VII</p> <ul style="list-style-type: none"> • Transport Phenomena. • Process Equipment Design and Drawing • Professional Elective – IV (APR) • Open Elective – II • Process Control and Process Simulation Laboratory • Petrochemical Synthesis Laboratory 	<p>SEMESTER VII</p> <ul style="list-style-type: none"> • Transport Phenomena • Process Equipment Design and Drawing • Professional Elective – IV • Open Elective – IV • Process Instrumentation & Control Laboratory • Process Equipment Design, Drawing and Simulation Laboratory
<p>SEMESTER VIII</p> <ul style="list-style-type: none"> • Project work/ Internship 	<p>SEMESTER VIII</p> <ul style="list-style-type: none"> • Project work/ Internship

Besides core subjects, highlighted subjects are additional subjects/practicals studied by Petrochemical Engineers of this University.