



جامعة المنصورة
كلية العلوم
قسم الكيمياء

بكالوريوس البتروكيماويات وتطبيقاتها



Petrochemicals are those chemicals derived from petroleum. The two most common petrochemical classes are olefins (including ethylene and propylene) and aromatics (including benzene, toluene and xylene isomers). Oil refineries produce olefins and aromatics by fluid catalytic cracking of petroleum fractions. Chemical plants produce olefins by steam cracking of natural gas liquids like ethane and propane. Aromatics are produced by catalytic reforming of naphtha. Olefins and aromatics are the building-blocks for a wide range of materials such as solvents, detergents, and adhesives. Olefins are the basis for polymers and oligomers used in plastics, resins, fibers, elastomers, lubricants, and gels. Petrochemicals have had a dramatic impact on our food, clothing, shelter and leisure. Some synthetics, tailored for particular uses, actually perform better than products made by nature because of their unique properties.

The B.Sc. in Petrochemicals and their applications aims to provide a graduate able to

recognize the role of Petrochemicals in the development of society, develop Petrochemical approaches that meet community needs considering economic, environmental, social, ethical, and safety requirements, utilize scientific facts and theories to analyze and interpret practical Petrochemical data, collect, analyze, and present Petrochemical data using appropriate formats and techniques, postulate concepts and choose appropriate solutions to solve Petrochemical problems on scientific basis, apply effectively information technology relevant to Petrochemicals, participate effectively in a multidisciplinary teamwork and be flexible for adaptation, decision making and working under contradictory conditions as well as exhibiting the sense of beauty and neatness, and adopt self and long life-learning and participate effectively in research activities, and deal with scientific data in Arabic, English or other languages.



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