Date: 18-02-2019

**Summary Report on WIT & WIL**

**(Daily Report)**

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| **Name of the Faculty: S.Pratyusha** | **Name of Subject: Engineering Chemistry** |
| **Class/Section: Me-B** | |

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|  | Grid Reference No.: | 3.1.1 |
|  | Scenario Reference No.  (Mapping with Syllabus) |  |
|  | Topic covered in every class | Liquid Fuels |
|  | Brief write-up (500 words) for every class: | **Step3: Fractional distillation**      **Cracking**, in [petroleum refining](https://www.britannica.com/technology/petroleum-refining), the process by which heavy [hydrocarbon](https://www.britannica.com/science/hydrocarbon) molecules are broken up into lighter molecules by means of heat and usually pressure and sometimes [catalysts](https://www.merriam-webster.com/dictionary/catalysts). Cracking is the most important process for the commercial production of [gasoline](https://www.britannica.com/technology/gasoline-fuel) and [diesel fuel](https://www.britannica.com/technology/diesel-fuel).  Cracking of petroleum yields light oils (corresponding to gasoline), middle-range oils used in diesel fuel, residual heavy oils, a solid carbonaceous product known as [coke](https://www.britannica.com/technology/coke), and such gases as [methane](https://www.britannica.com/science/methane), [ethane](https://www.britannica.com/science/ethane), [ethylene](https://www.britannica.com/science/ethylene), [propane](https://www.britannica.com/science/propane), [propylene](https://www.britannica.com/science/propylene), and [butylene](https://www.britannica.com/science/butene). Depending on the end product, the oils can go directly into fuel blending, or they can be routed through further cracking reactions or other refining processes until they have produced oils of the desired weight  Image result for cracking types of petroleum in cars  Image result for cracking types of petroleum in cars |
|  | Relevant additional illustration if any: | . The gases can be used in the refinery’s fuel system, but they are also important raw materials for [petrochemical](https://www.britannica.com/science/petrochemical) plants, where they are made into a large number of end products, ranging from [synthetic](https://www.merriam-webster.com/dictionary/synthetic) [rubber](https://www.britannica.com/science/rubber-chemical-compound) and [plastic](https://www.britannica.com/science/plastic) to agricultural chemicals. |
|  | Video Links/ Web Links if any: | <https://www.youtube.com/watch?v=-0CwOvo3aKs&t=94s>  <https://www.youtube.com/watch?v=J2-tDV8KYEA> |
|  | Signature of Repository Administrator: |  |