

**جامعة الملك سعود**

**كلية العلوم**

**المختبر المركزي**

**Chemistry and Physics unit services**

Central Laboratory, College of Science, King Saud University

|  |  |  |  |  |
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| **S. No.** | **Type of analysis** | **Instruments** | **Last user** | **Lab. No.** |
| 1. | Determination of Molecular weight | GPC | Dr. Manawwer Alam | AA 55 |
| 2. | Topography | AFM | Dr. Manawwer Alam | AA 55 |
| 3. | Determination C,H,N,S,O in % | Elemental Analyzer | Dr. Manawwer Alam | AA 55 |
| 4. | Phase transition Temperature | DSC | Dr. Manawwer Alam | AA 55 |
| 5. | Weight loss measurements | TGA | Dr. Manawwer Alam | AA 55 |
| 6. | Mechanical measurement | DMA | Dr. Manawwer Alam | AA 55 |
| 7. | Themo-mechanical measurements | TMA | Dr. Manawwer Alam | AA 55 |
| 8. | Functional Group detection | FTIR | Dr. Manawwer Alam | AA 47 |
| 9. | Separation and Molecular Mass Determination | HPLC | Dr. Mohammad Altaf | AA 45 |
| 10. | Detection of C,H, and 2d | NMR | Dr. Mohammad Altaf | AA 73 |
| 11. | Separation and Molecular Mass Determination | GC-MS | Dr. Naushad Ahmad | AA 45 |
| 12. | TPR, TPO and TPD thermal Analysis | Chemosorption  Analyzer | Dr. Naushad Ahmad | AA 55 |
| 13. | Determination of metallic species | ICP-MS | Dr. Naushad Ahmad | AA 44 |
| 14. | Mass measurement | Tof LC | Basel Alrayes | AA 44 |
| 15. | Phase and size | XRD | Basel Alrayes | AA90 |
| 16. | Elements | XRF | Basel Alrayes | AA90 |
| 17. | Irradiation | Gamma Radiation | Basel Alrayes | AA89 |
| 18. | Size in nano range | Zetasizer | Basel Alrayes | AA55 |
| 19. | Size in micro range | Mastersizer | Basel Alrayes | AA55 |