


|  |   |                   |                              |
|--|---|-------------------|------------------------------|
|  <b>UTM</b><br>UNIVERSITI TEKNOLOGI MALAYSIA | <b>PUSAT PENGURUSAN MAKMAL<br/>         UNIVERSITI (PPMU)</b> | Form Num.         | UURL/F/47                    |
|  |   | Version           | 1/2023                       |
|  |   | Effective Date    | 01/02/2023                   |
|  |   | Equipment         | SURFACE AREA & PORE ANALYZER |
|  |   | Sample Serial No. | UURL/                        |
| <b>SURFACE SCIENCE LABORATORY</b>  |   |                   |                              |
| <b>SAMPLE SUBMISSION FORM</b>  |   |                   |                              |

**General Rules and Requirements:**

1. All information provided should be true.
2. Booking will be notified/updated by email.
3. Booking procedure
  - a. Complete the application form including a valid research vote number.
  - b. Submit the complete application form to UURL Sample Acceptance Counter.
  - c. **Fast Lane is offered to non-UTM customers with an additional 50% charge from the normal price.**
4. Sample Condition & Preparation
  - a. **PPMU has the right to cancel any analysis if the sample is suspected to have a high risk on the safety of the operator or can cause damage to the instrument during the analysis. The cost of damages will be borne by the customer.**
  - b. **The remaining samples will be disposed of within a month after analysis is completed.**
  - c. Only samples that were ready to be analyzed were accepted by the lab
5. All inquiries regarding **SURFACE AREA & PORE ANALYZER** should be forwarded to the Assistant Science Officer (Mrs Nurleyana Salleh, email: [nurleyana@utm.my](mailto:nurleyana@utm.my), Mrs Iryani Nabilah Kasni, email: [iryantinabilah@utm.my](mailto:iryantinabilah@utm.my), tel: 07-5557720) or visit our website at [ppmu.utm.my](http://ppmu.utm.my).

| 1. APPLICANT'S PERSONAL PARTICULARS   |  |   |  |                                |  |                                 |  |                         |  |                          |  |
|---|--|---|--|--------------------------------|--|---------------------------------|--|-------------------------|--|--------------------------|--|
| Name of Applicant   |  |   |  |                                |  |                                 |  |                         |  |                          |  |
| Status of Applicant   |  | Undergraduates  |  | Master                         |  | PhD                             |  | Research                |  |                          |  |
| Student Matric No.  |  |   |  |                                |  |                                 |  |                         |  |                          |  |
| Faculty/ Department   |  |   |  |                                |  |                                 |  |                         |  |                          |  |
| Hand Phone No. & Email  |  |   |  |                                |  |                                 |  |                         |  |                          |  |
| 2. SUPERVISOR DETAILS   |  |   |  |                                |  |                                 |  |                         |  |                          |  |
| Name of Supervisor  |  |   |  |                                |  |                                 |  |                         |  |                          |  |
| Staff ID No.  |  |   |  |                                |  |                                 |  |                         |  |                          |  |
| Faculty/Department  |  |   |  |                                |  |                                 |  |                         |  |                          |  |
| Hand Phone No.  |  |   |  |                                |  |                                 |  |                         |  |                          |  |
| Email   |  |   |  |                                |  |                                 |  |                         |  |                          |  |
| Mode of Payment   |  | Cash  |  | EFT                            |  | Log card                        |  | Invoice                 |  | Fast Lane                |  |
| Payment using Invoice   |  | Research Vot No.<br>(e.g.: Q.J091600.24C3.01D32)  |  |                                |  |                                 |  |                         |  |                          |  |
|   |  | Balance of V29000   |  |                                |  |                                 |  |                         |  |                          |  |
| Signature & Official Stamp  |  | *A digital signature is not recommended. Any matters raised in the future are beyond our responsibilities |  |                                |  |                                 |  |                         |  |                          |  |
| 3. SAMPLE INFORMATION (please attach the copy of referred journal)  |  |   |  |                                |  |                                 |  |                         |  |                          |  |
| Name of Sample  |  |   |  |                                |  |                                 |  |                         |  |                          |  |
| Type of Sample  |  | Powder <input type="checkbox"/>   |  | Solid <input type="checkbox"/> |  | Others <input type="checkbox"/> |  |                         |  |                          |  |
| * Samples must be dried and not oily  |  |   |  |                                |  |                                 |  |                         |  |                          |  |
| No. of Samples Submitted  |  |   |  |                                |  |                                 |  |                         |  |                          |  |
| Sample i.d/Labels   |  |   |  |                                |  |                                 |  |                         |  |                          |  |
| Test Required   |  | 1) Isotherm (ASTM D4222-03)   |  | <input type="checkbox"/>       |  |                                 |  |                         |  |                          |  |
|   |  | 2) Surface Area (ASTM D3663-03)   |  | B.E.T                          |  | <input type="checkbox"/>        |  | Langmuir                |  | <input type="checkbox"/> |  |
|   |  | 3) Pore Distribution (ASTM D4641-12)  |  | B.J.H                          |  | <input type="checkbox"/>        |  | Horvath & Kawazoe       |  | <input type="checkbox"/> |  |
|   |  |   |  | t-Plot<br>(Lippens & de Boer)  |  | <input type="checkbox"/>        |  | Dubinin and Radaskevich |  | <input type="checkbox"/> |  |
| Sample pre-treatment consists in the combined operation of vacuum and temperature to remove the humidity from the sample. |  | Temperature (°C) :  |  |                                |  |                                 |  |                         |  |                          |  |
|   |  | Time/ Hour :  |  |                                |  |                                 |  |                         |  |                          |  |